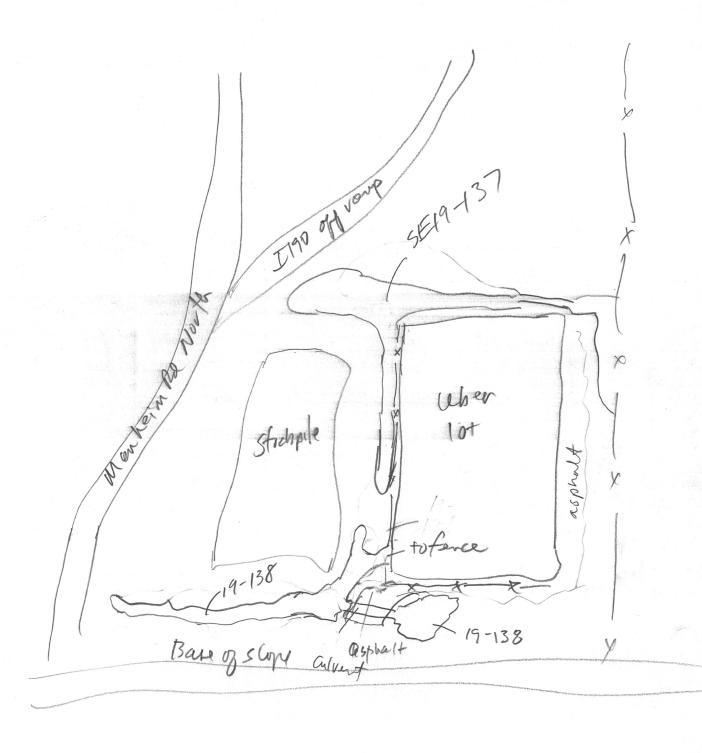
Project/Site: Chicago O'Hare International Airport (ORD)	City/	County: <u>DuPa</u>	ge/Cook Sampling Date: 9/24/19
Applicant/Owner: City of Chicago		State	e: <u>Illinois</u>	Wetland #:
Investigator(s): Brauna Hartzell, Kim Shannon, Conor	Makepeace,	Mead & Hu	ınt, Inc. Se	ection, Township, Range:
NWI classification:				
Are climatic hydrologic conditions on the site typical for the	nis time of ye	ear? Yes _[No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly	disturbed?	Area	construction;
Are Vegetation, Soil, or Hydrology			2	The state of the s
ADDITIONAL VEGETATION - Use scientific na	ames of p	lants	Road .	Construepe
	Absolute	Dominant	Indicator	General location within wetland
Tree Stratum				Shellow dependen acoud a Loop inless within clover/sof of 1790 west
	% Cover	Species?	Status	Sheeters agreement
1.				a Loop i Det within
2.				TIGO West
3.				clover (2010) 11/0 0031
4.				
5.				
		= Total Co	ver	Other Notes
Sapling/Shrub Stratum				- Supreeller at surper
1.				- Suprech at surfeer - Suprech at surfeer - Cravogbei por - FAC Newtrol - Depleted makin
2.				Couragive 101
3.				- FA Wantal
4.				- / // / / / / / / / / / / / / / / / /
5.				D. I. Lad weeker
5.		T 1 1 C		- Deput
		= Total Cov	/er	
Herb Stratum	- 10		(1011)	
1. Persicaria maculatum	X		MEW	
2. Eleodory Obtush	X		036	
3. Echwocler over- Galli	.,		FARW	
4. Diploeline fuscer		×	FACU	
5. Sol sempervivins			FACW	,
6. Triloben protune			FACU	
7.				
8.				
9.				
10.				
11.			2	
			ž.	
12.		Tel-LO		
Mand Vine Church und		= Total Cov	ver	
Wood Vine Stratum			x	
1.				0.
2.			*	Pics 2:10
		= Total Cov	rer	
Remarks: (Include photo numbers here or on a separate	sheet.)			

WEILAN	DETER	MINATION	SUPPLEME	NIAL FORM
Project/Site: Chicago O'Hare International Airport (ORD)	n	City/	County: <u>DuPa</u>	ge/Cook Sampling Date: 9/24/19
Applicant/Owner: City of Chicago			e: <u>Illinois</u>	Wetland #: <u>SE19-137</u>
Investigator(s): Brauna Hartzell, Kim Shannon, Conor M	<u>lakepeace,</u>	Mead & Hu	int, Inc. Se	ection, Township, Range:
NWI classification: PEM				
Are climatic hydrologic conditions on the site typical for thi			No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology s			Constv	wetin of party lot;
Are Vegetation, Soil, or Hydrology r			nu H	ve
ADDITIONAL VEGETATION - Use scientific na	mes of p	lants	1011	0
	Absolute	Dominant	Indicator	General location within wetland
Tree Stratum	% Cover	Species?	Status	- Seprenen agoent
1.				Fine my selle of
2.				- depression oggent firee on east side of Uper Pulcy Lot
3.				Uger Parton Lot
4.				
5.				
		= Total Co	ver	Other Notes
Sapling/Shrub Stratum				- Asphalt slope from
1.				A Company of the Comp
2.				perkey lot
3.				- New old
4. 5.				
5.		= Total Cov	/or	- Depleted watrix
Herb Stratum		10tal Co	vei	
1 De regnest suckealis	×		FACW	Geowayte positri
12 Sal Generaliseus	V		FAZIO	- some it
3. Symply Subulation	R		OBL	- Some Standey wol
4. VFunatorina Serdina		,	FACW	in rute
5. Diplace lacevatic				
6.	,al			- lestande around
77. Symply of Subulation	X			north scale of Cot
8. Eleocheres preliette	×			1000
9. Echinologa crus-galli				to west and ento
10. Bearded Sprugletop	8			N dans witho
11. Andrew Julatur	, ,		,	a they were
12. Bolloschgenes Pholas				a flut area north of Sockpile
Phroquets dong sene	717	= Total Cov	/er	7,000,000
Wood Vine Stratum	1 - ti			
1. De compressión pagos	MINI			0
2. Persperelle would		T. I. C.		Rcs 2:45
Remarks: (Include photo numbers here or on a separate		= Total Cov	/er	1 2 . 3 0
~ *	5.1000.7			+3:00
Depression				
/				

Berksel

SE19-137





Project/Site: Chicago O'Hare International Airport (ORD)	City/	'County: <u>DuPa</u>	nge/Cook Sampling Date: 9/24/19
Applicant/Owner: <u>City of Chicago</u>		State	e: Illinois	wetland #:
Investigator(s): <u>Brauna Hartzell, Kim Shannon, Conor</u>	Makepeace,	Mead & Hu	unt, Inc. Se	
NWI classification: PEM				See map m 137 Sh
Are climatic hydrologic conditions on the site typical for the			No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	_			
Are Vegetation, Soil, or Hydrology	naturally pro	oblematic?		
ADDITIONAL VEGETATION - Use scientific n	ames of p	lants		
	Absolute		Indicator	General location within wetland
Tree Stratum				
	70 COVE	Species?	Status	At love of stockple and
1.				parky lot.
2.				Davida 1.2
3.				- 10005 601.
4.				- Co
5.			Sign of the state	
		= Total Co	ver	Other Notes
Sapling/Shrub Stratum				- Continues along base of stone for Bolonou Pel to Manheim Ro
1.				O D D
2.				love of show for Downor
3.				no a la la la la
4.				Let & Mannein
5.				- standay water at bare
		= Total Co	ver	- Standey wall of water
Herb Stratum		- rotar co		a di Dana tria
1 Phrenite australis	×		FACW	- Depleted watrix
2 + 11 0 - 11 Stiffer			081	
2. This case of the court of the			1000	1
3. Echinoctes crus-galli	Av.		FACW	
4. 501. Senpervivous			FIFEW	- 12 ivel culvert dong pavement area connection two sections
5. Hordeen Julitum			TAC	- 10 went area con as the
6. Synmy Sulutarin	Tax.		DISL) auziveri
7. Ey Krum Salecavia			Orse	two sections
8. Eleocheres palvifre	-		0132	- " + Thed
9.				- 36 culvers as
10.				- On filldoma
11.				Phrognites - Somerotel
12.				DI To al months of
		= Total Cov	ver	progress some of
Wood Vine Stratum				
1.				
2.		6, 5		
- 		= Total Cov	ver	Vics 4:21
Remarks: (Include photo numbers here or on a separate	e sheet.)	- 10tai Co	VCI	
Depression				
, ,				

Project/Site: Chicago O'Hare International Airport (ORD)		City/	County: DuPa	ge/Cook Sampling Date: 9/24/19
Applicant/Owner: City of Chicago			e: Illinois	Wetland #: 5E19-139
Investigator(s): Brauna Hartzell, Kim Shannon, Conor N	lakepeace,			
NWI classification: PEN			,	
Are climatic hydrologic conditions on the site typical for thi	s time of ye	ear? Yes [□ No □	(If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology s				wow ; Solly destructed by
Are Vegetation, Soil, or Hydrology n	-	blematic?	per !	way we good and and
ADDITIONAL VEGETATION - Use scientific na	mes of p	lants	rates	3/ eroseon, gravel depart
	Absolute	1	Indicator	General location within wetland
Tree Stratum	% Cover	Dominant Species?		
1.	70 COVE	Species?	Status	- Along manheim Rd
2.			7	and I 190 East Perp
3.			7.8	near Balmorall Brilg
4.				
5.				- Roodside
*		= Total Cov	ver	Other Notes
Sapling/Shrub Stratum	*	- rotal co	VCI	- area collects water
1.				
2.				from south
3.				
4.	i a			- not a defered
5.				
		= Total Cov	ver	deta line
Herb Stratum				- several weas with
1. Symphyp Subulatum	X		OBL	
2. Phroznites australis	X		Mew	Stades water
3. Sole, sonpervivers			FREW	
4. Harden petatury.			FAC	- the classic supplies
5. Persicada machapun			FACW	on shallow pool
6. Cyperus esculentus	<u> </u>		FACW	at northerd
7. Full Witch gran		E.	UPL	
8. Eleocherir obtuga	X		OBL	- Goil destorted
9. Bolhoschvener fluicitilis	•		OBL	gravel in areas at
10. Typher angust tolia			036	graves in acces
11. Schoenbylestro per	ens		OBL	noth
12. Cover sp. Vulpineredie	2)		FACW	7,50
_	/	= Total Cov	er er	
Wood Vine Stratum				
1.		- E	3 '	0
2.			*	6/103 4:45
Remarks: (Include photo numbers here or on a separate		= Total Cov	ver	
Remarks. (Include photo numbers here or on a separate	sneet.)			
Depenier				
. *				

Annih anni / Oromano Citro of China an				ge/Cook Sampling Date: 9/24/19
Applicant/Owner: City of Chicago	4-1	State	: Illinois	Wetland #: <u>NE19 - 140</u>
Investigator(s): <u>Brauna Hartzell, Kim Shannon, Conor N</u> NWI classification: <u>PEM</u>	<u>иакереасе,</u>	меаа & ни	nt, Inc. Se	ection, Township, Range:
Are climatic hydrologic conditions on the site typical for th	ic time of w	aar? Voc T		(If no cymlain in Domanica)
Are Vegetation \(\tilde{\mathbb{X}} \), Soil \(\tilde{\mathbb{X}} \), or Hydrology \(\tilde{\mathbb{X}} \) s	ionificantly	dicturbed?		(11 no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology r			1 soul	construction; NOWITS,
			COVO	ed drop enlet
ADDITIONAL VEGETATION - Use scientific na	mes or p	iants		
		Dominant		General location within wetland
Tree Stratum	% Cover	Species?	Status	- Roodende digth dung
1.				Marken Red north
2.				Morhem Pel north On vory from I 190 W
3.				on only of
4.				-
5.		T. 1.0		Other Notes
Capling/Church Church and		= Total Cov	/er	Other Notes - Parleted metrix - The lake surface
Sapling/Shrub Stratum				- 1)
1.				- The clar sugar
3.				
				(A/2)
5.				to the tempore
5.		- Total Co		- Satuation at Surface - Gensophie Mas - FAC - Neutral
Herb Stratum	[2]	= Total Cov	er er	Commbre NOS
1 Trush Consultation			MB1.	Garage
2 / Athrum California			0131	- FAC - Neitral
3. Physical sustale			FARIN	
4 Change Certification			FAR W	
5. Verticra hastata			EARL	
6. Sol sensevulvers	NO.		FACIN	
7. Dissacus Corenatus	5		FACIL	
8. Eleocharis otheria			1381	
9.			0,0	
10.				
11.				1
12.				
		= Total Cov	er	
Wood Vine Stratum			-	*
1.				2
2.				Pies 5:30
		= Total Cov	er	1100 0.00
Remarks: (Include photo numbers here or on a separate				
D. A. C. C. C.				
Depression				
				*

	nicago O'Hare International Airport (ORD) City/County: DuF					
				Wetland #: SW19 - 141		
Investigator(s): Brauna Hartzell, Kim Shannon, Conor	Makepeace,	Mead & Hu	int, Inc. Se	ection, Township, Range:		
NWI classification: PEM						
Are climatic hydrologic conditions on the site typical for the			No	(If no, explain in Remarks.)		
Are Vegetation, Soil, or Hydrology						
Are Vegetation, Soil, or Hydrology	naturally pro	oblematic?				
ADDITIONAL VEGETATION - Use scientific na	ames of p	lants				
	Absolute	Dominant	Indicator	General location within wetland		
Tree Stratum	% Cover	Species?	Status	- Alex breve of fieldstone		
1.				for rail word, south of		
2.				for rail word, South of		
3.			er Yanan Karan	Tital		
4.			of the state of th	lass live		
5.						
		= Total Cov	ver	Other Notes		
Sapling/Shrub Stratum				- Dlan Remainated		
1.				- Phrog demeirated		
2.				- Standing water		
3.				- saray well		
4.				- Ga 1		
5.				- Georphi pontri		
		= Total Cov	/er			
Herb Stratum		- rotal co		ender procy part Ad		
1. Phramety australis			IAC UI	ward - Day De la Rel		
2. 1. thousa sulicaria			1001	and trong process		
3. Trusha a sutofolio			MBL	to Sa Rowlande diton		
4. Julius to was ein			010-			
5. Showo letter flusiah	75		OBL	11		
6. Bilens 30	15		000	- Hen yrans before 10/3		
7.		1/1		- water flowing to		
8.	-					
9.				120 17		
10.				20,000		
11.				-2-36" culvers vide		
12.						
		= Total Cov	/er	Vood; one lege to		
Wood Vine Stratum	-			/ 0		
1.				Colling		
2.				Pics 11:50 cm everts		
		= Total Cov	ver .	on woods		
Remarks: (Include photo numbers here or on a separate	sheet.)					
Revisited 10/3 to Depression	old	to a	aleni	int.		
Descript				•		
Depression						

Project/Site: Chicago O'Hare International Airport (ORD))	City/	County: <u>DuPa</u>	ge/Cook	_ Sampling Date: _	9/25/19
Applicant/Owner: <u>City of Chicago</u>		State	e: Illinois		_ Wetland #: <u></u>	119-142
Investigator(s): Brauna Hartzell, Kim Shannon, Conor I	Makepeace,	Mead & Hu	int, Inc. Se	ection, Township, Ra	ange:	
NWI classification: PEM						
Are climatic hydrologic conditions on the site typical for the						· ·
Are Vegetation, Soil, or Hydrology			Greens	e roud	constru	Tun
Are Vegetation, Soil, or Hydrology	naturally pro	blematic?				
ADDITIONAL VEGETATION - Use scientific na	ames of p	lants				
	Absolute	Dominant	Indicator		n within wetland	^
Tree Stratum	% Cover	Species?	Status	- Dita	between 9	ravel
1.				AGGICS	between g	rail
2.				2 1	1002000	, and
3.				- Lulo	whent	on werd
4.						
5.						
		= Total Cov	ver	Other Notes	-0 0	
Sapling/Shrub Stratum				- Catto	uly and p	SASICONE
1.				1	4.0	
2.				Leru	ils and p with the series of t	and factors.
3.				1 ton	In wer	
4.				-3/0	11.	and the same
5.				- Gean	vagetier /	100
		= Total Cov	/er	11	O moste	9
Herb Stratum				-17 lgo		
1. Turbo ar sustitolia	X		OBL	_		
2. Persiranda maculation	×		[Aeu)			
3. Echenolin Eres - Falli			CACU			
4. Bearded Sheriton			FAO (1)			
- 1 1 1 0 1 1			MBI			2
6. Lythoun Salicaria			281	-		,
7.			000			å e
8.						
9.				,		
10.						*
11.			,			
12.						
Was days a Challen		= Total Cov	ver er	,		
Wood Vine Stratum						
1.				0	7	
2.	-			PICS Z	-30	
Domarke: (Include photo numbers here or on a constrate		= Total Cov	rer			
Remarks: (Include photo numbers here or on a separate	sneet.)					
Depression						
Defices						
•						
						2
						· .
·	a .		V.			

Project/Site: Chicago O'Hare International Airport (ORD) Applicant/Owner: City of Chicago State: Illinois Wetland #: Newstigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. WIVI classification: Are climatic hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology , significantly disturbed? ADDITIONAL VEGETATION - Use scientific names of plants Absolute Dominant Indicator Tree Stratum 1. 2. Absolute Dominant Indicator % Cover Species? Status Fast Sick Acceptable Conditions within wetland the conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Indicator General location within wetland the conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Absolute Dominant Indicator Fast Sick Acceptable Conditions within wetland the conditions within wetland the conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Absolute Dominant Indicator Fast Sick Acceptable Conditions within wetland the conditions within wetland the conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Absolute Dominant Indicator Fast Sick Acceptable Conditions within wetland the conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Absolute Dominant Indicator Fast Sick Acceptable Conditions within wetland the conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Absolute Dominant Indicator Fast Sick Acceptable Conditions within wetland the conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)	In OPS TNE! ate: 9/25/19 5/219-143
nvestigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: WI classification: Ive climatic hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Ive Vegetation , Soil , or Hydrology naturally problematic? NDDITIONAL VEGETATION - Use scientific names of plants	ste: <u>4,12,77,7</u> <u>5,19-143</u>
nvestigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: WI classification: Ive climatic hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Ive Vegetation , Soil , or Hydrology naturally problematic? NDDITIONAL VEGETATION - Use scientific names of plants	51217-143
IWI classification: PEM are climatic hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) are Vegetation , Soil , or Hydrology , significantly disturbed? Swale Construction are Vegetation , Soil , or Hydrology , naturally problematic? ADDITIONAL VEGETATION - Use scientific names of plants	
re climatic hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) re Vegetation, Soil, or Hydrology significantly disturbed? Swale constructions re Vegetation, Soil, or Hydrology naturally problematic? ADDITIONAL VEGETATION - Use scientific names of plants	
re Vegetation, Soil, or Hydrology significantly disturbed? Swale construction re Vegetation, Soil, or Hydrology naturally problematic? ADDITIONAL VEGETATION - Use scientific names of plants	
ADDITIONAL VEGETATION - Use scientific names of plants ADDITIONAL VEGETATION - Use scientific names of plants	
ADDITIONAL VEGETATION - Use scientific names of plants ADDITIONAL VEGETATION - Use scientific names of plants	
Constal location within wet	
Constal location within wet	
Tree Stratum **Cover Species? Status Fast sick of the status of the st	and
1. 2. R. I make all hards	W mhehr
En Vance Rong R. I march has	0, 100 00000000000000000000000000000000
R. I make the	from
	0
3.	0 /
4 East side of	gravel 10
5.	U
= Total Cover Other Notes	
- Iodal cover	reta
Sapling/Shrub Stratum	1000
1.	al area
2 defierr	
3.	
4 Va culver?	\$
5	
5. = Total Cover - Phrag. Lorum	ported
Herb Stratum	
1. Phroqueter australis FACW 2. Lighthelm Salicaron OBL	
2. Lytholem Salicanta OBL	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	
11.	
12.	
= Total Cover	
Wood Vine Stratum	
1.	
1. 2. Rey 4:50,0m	
= Total Cover	
Remarks: (Include photo numbers here or on a separate sheet.)	

Project/Site: Chicago O'Hare International Airport (ORD) Applicant/Owner: City of Chicago					Sampling Date: 9 126/19 Wetland #: 5 E 19 - 14 E
Investigator(s): Brauna Hartzell, Kim Shannon, Conor					
Are Vegetation, Soil, or Hydrology Are Vegetation, Soil, or Hydrology	significantly	disturbed?		(If no, explain in Rem	
ADDITIONAL VEGETATION - Use scientific na	mes of p	lants			
	Absolute	Dominant	Indicator	General location	
Tree Stratum	% Cover	Species?	Status	-Malsn	for 78R?
1.					0.001
2.				New	TNPLOT
3.	-			-	
4.		-		-	
5.		Tatal Ca		Other Notes	
Sapling/Shrub Stratum		= Total Co	ver		1
1.				-Shall	in depusien
2.					elventeinlets
3.				- No a	elving meas
4.				- Dans	5 to I294 ROW
5.				·	
		= Total Cov	/er	heyor	d ferce
Herb Stratum				/	
1. Phrogheter australis			FACI	- Ocar	ogher portri
2. /ypla constitution			OBL	- Fire	Neutral
3. Cythrum Saleann	19		OBL	/	
4. If feach aus OhTISG			OBL	- Neces	res route
5. Elevocheris palustre			OBC		21201
6. 7.				from g	ravel areas
8.				Surver	relig
9.				-	
10.				- 11/ac	Malso Ditch
11.					
12.				Ku	8-P5
		= Total Cov	ver		
Wood Vine Stratum					
1.				0	
2.				1/1/2 2	10-10:15 am
Daniel (Tarleta la		= Total Cov	ver	1.03	70 70:75 000
Remarks: (Include photo numbers here or on a separate	sneet.)				
N					
Depression					
/					

Project/Site: Chicago O'Hare International Airport (ORD))	City/	County: <u>DuPa</u>	ge/Cook Sampling Date: 9 26/19
Applicant/Owner: City of Chicago		State	e: <u>Illinois</u>	Wetland #: <u>SE19 -145</u>
Investigator(s): <u>Brauna Hartzell, Kim Shannon, Mead & I</u> NWI classification: <u>PEM</u>	Hunt, Inc		Section	n, Township, Range:
	is time of	Vaa - [(TF no combain in Demondra)
Are climatic hydrologic conditions on the site typical for th			NO	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology s Are Vegetation, Soil, or Hydrology s	naturally pro	oblematic?	Avec	moun; road con structi
ADDITIONAL VEGETATION - Use scientific na				
	Absolute	Dominant	Indicator	General location within wetland
Tree Stratum	% Cover	Species?	Status	To On On Dikel along
1.				Coasside and h
2.				Noadside dikh along N. Monheim (East still Sorth of Bolivaral
3.				C THE BROWN SO
4.				Someway (rocentral
5.				1 '
		= Total Cov	/er	Other Notes
Sapling/Shrub Stratum		. Total oo		a li notre
1.				-Geonapher Post
2.				- Geowapher poten - FAEDlentral
3.				- FAENentral - Algal mats - Graded Soils - Depleted Motrix
4.			S C	-Algal wats
5.				Carlo Soula
		= Total Cov	/er	- Oranger - oris
Herb Stratum				X. A. A. a. Matrix
1. Solidago Severvinos	X		FACW	- Depute
2. Saboenoplietes sovalus	2		OBL	
3. Symplem rubulation			ORIL	e%s
4. Phrochnetes aughalis			Frew	
5. Fel order cryc sulli			FACW	,
6. Bolanschrenes Aurtuh 13			OBL	
7. Cynerus esculentus			FACW	
8.		1		
9.				
10.			8	
11.		,	-	
12.				
		= Total Cov	ver	
Wood Vine Stratum		10001001	Ci ,	
1.				
2.				Pics 12:30-1pm
		= Total Cov	or	165 16:30-7-pm
Remarks: (Include photo numbers here or on a separate		- Total Cov	Ci	4
	,			
1) epress in				
1) Oper 35 1				
			1	

Placebolder for Conov WETLAND DETERMINATION SUPPLEMENTAL FORM #

iect/Site: Chicago O'Hare International Airport (ORD) City/County: DuP			ge/Cook Sampling Date: 2 (25/19	
pplicant/Owner: <u>City of Chicago</u> State: <u>Illinois</u>			: Illinois	Wetland #: 3019 - 146
Investigator(s): Brauna Hartzell, Kim Shannon, Conor I	Makepeace,	Mead & Hu	nt, Inc. Se	ection, Township, Range:
NWI classification: PEM				
Are climatic hydrologic conditions on the site typical for th			No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology			Ewb	unliment construction
Are Vegetation , Soil , or Hydrology ı	naturally pro	oblematic?	,	
ADDITIONAL VEGETATION - Use scientific na	mes of p	lants		
	Absolute	Dominant	Indicator	General location within wetland
Tree Stratum		Species?	Status	- Co Mad Tolt AR.
1.		- p		300000
2.				- South of Topt Ave+
3.				7 3'
4.			,	
5.				
5.		= Total Cov	/Or	Other Notes Dan A
Sapling/Shrub Stratum		10tal Cov	CI	1 per livette
				- Standay was
1.				- at long of RR fulx
3.				- of ware of
				- stære of PR field - at bære of PR field - læge ælvert ander æccess vood
4.		4		- carge as const
5.				under serous ovad
		= Total Cov	er	A 11
Herb Stratum			para 10 . 1	to Nav. equipment
1. Moguetes	X		FACW	
2. Lythrum Salesaren	X		036	to Nav. equipment - tunnel ander RR
3. Typha cargustituti	h.		OBL	
4. Juliues torregei			FACU	to Nav. equipment
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
		= Total Cov	er	
Wood Vine Stratum				
1.		16		
2.				
		= Total Cov	er	
Remarks: (Include photo numbers here or on a separate				

L-404

Project/Site: Chicago O'Hare International Airport (ORD)		City/	County: DuPac	ge/Cook Sampling Date: 9/25//9
Applicant/Owner: City of Chicago	,		: Illinois	Wetland #: NE65 (owz)
Investigator(s): Brauna Hartzell, Kim Shannon, Conor N	1akepeace,			
NWI classification: PSS			,	
Are climatic hydrologic conditions on the site typical for thi	is time of ve	ear? Yes [Л No П	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology s			Dut	unter 6 construction of
Are Vegetation, Soil, or Hydrology r	_		213/	
ADDITIONAL VEGETATION - Use scientific na			Steel	whed hy construction of Vetuering wall
	Absolute	Dominant	Indicator	General location within wetland
Tree Stratum	% Cover	Species?	Status	- old wetlend NEGS
1. SI/Ver mysle			FACW	
2. Pop. del toides			FAC	- essentially splithy
3. travinus Denn	9		PACW	N. tasis - II
4.			, ,,	retaining wall
5.				
		= Total Cov	/Ar	Other Notes
Sapling/Shrub Stratum		- Total Cov	/CI	- marinst stend we tains
1. Rhannus cuthentia			THE	and state of the s
2. Salix Interior (?)			FIL	- against steel vetainly wall for rulevod proporty
3.				
4.				- Starding water
5.				1
5.		- Total Cov	104	- piles of gravelond Soil arter mixed.
Herb Stratum		= Total Cov	/er	soil a ten mixed
1. Lythram Salicaria	~		OBL	2011 3001 300
			OIR,	- Geomorphie porch - FAC Newfol
2. /y plo argustifolis	- X		0.50	En of a
3. Eyestorium Sevalium	**		TITCU	- Merragrag
4. Cerus sp.				
5. Vitas vipavia				
6. Tuncer Stableg in	1			
7.				•
8.				
9.				
10.				
11.				
12.				
	,	= Total Cov	er	
Wood Vine Stratum				
1.				
2.				
Demonstra (Tarelade place a contra de la contra del contra de la contra del la co		= Total Cov	er	
Remarks: (Include photo numbers here or on a separate	sneet.)			
9				*

Appendix J. Stream Characterization and Ditch Data Forms

APPENDIX L L-406 JUNE 2022

Stream Characterization	Date: 8/19/2019	7 Time: 11:00 AM Site:	ORD	County: DuPage	
Field ID: Stream/Ditch	Stream Name:	Bensenville [oitch - section 1	Investigators:	СВМ
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo	6 inches	4. Stream habitats present: X Pool(s) Riffles(s) 5. Stream Velocity: fast modera 6. Nature of the particles in the		9. Water Appearance: clear	Vater Odor: sewage chlorine fishy rotten eggs organic other: none
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	45 ft	silt/clay/mud sand gravel cobbles (2 - 10" diam.) boulders (> 10" diam.)	X	Presence of logs or large woody destream: None Occasional	ebris in
left 0.5 to 2 ft right e) Approximate depth of pool(s): N/A 2. Plant Species Adjacent to stream (sci	2 ft	in stream: None X Occasion 8. Facing upstream, does this		12. Pick the category that best describe extent to which vegetation shades the 0% 50% X 75% other -	stream: 100% _%
Trees: Salix interior, Rhamnus Alnus serrulata	cathartica,	for 50 feet on the: left side no What is the % cover of trees	right side no oer side of the stream?	13. Pick the description that best fits th bank and the channel (facing upstreama) Stream bank:	
Understory: Lythrum salicaria, Dipsacus la Phragmites australis, Asclepias sp.	ciniatus,	left side 0 % Facing upstream, does this st for 50 feet on the: left side yes What is the % cover of shrub 25% 25%	right side <u>0</u> % ream have <u>shrub</u> cover right side <u>yes</u>	Left Vertical/undercut X Steeply sloping (>30 X Gradual/No slope (<30 b) Shape of the channel:	0°)
X X Lawn, X X Boul Paveme b) From the top of the streambank of Left P C X X X T X X T Lawn,	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil int, Structures, Gabions ut to 50 fee t: Trees Bushes, Shrubs all grasses, forbs maintained landscape Boulders/Rocks Gravel/Sand	C" if common stream): Right P C X X X X	16. Ordinary High Water Check "P" if observed; C P U Natural Shelvin Change Destrue Presen Wracki X X Vegeta Sedime Leaf litt Scour Deposi Multiple X X Bed an Water s X X Change	Mark Determination neck "U" if used to determine OHWM line impressed on the bank g es in the character of soil etion of terrestrial vegetation ce of litter and debris ng tion matted down; bent, or absent into sorting er disturbed or washed away cion e observed flow events d banks etaining e in plant community	NN
15. In the vicinity of the stream, Che Left P C Natural Stream Ban X Garbage/ju Foa	Bare Soil vement, Structures ck "P" if present, "C" if amside plant cover deg as collapsed/eroded ank adjacent to the streem or sheen on bank and in or entering the s	raded Right P C raded X	DELINI TNW TNWW X RPW RPWW 18. Observed Fauna (m Invertebrates X Birds Mammals Reptile/Amph	NRPV ISOL/ UPLA TNWI ake note of wildlife deterents such as bird wires) List great blue heron, barn swallow, redw	WW ATE ND RPW
Yard waste or Livestock in Activ	ge/junk in the stream bank (clippings, leave or with unrestricted ac ely discharging pipes Other pipes nes entering stream		· ·	Areas of riprap had more flow. Fl de ditches enter on north side of property ad on west and construction on east side	/. Several

Stream Characterization	Date: 8/30/2019 Tim	ne: 8:05am Site:	ORD	County:	Cook
Field ID: Stream Ditch	Stream Name:	Bensenville D	itch - Section 2	Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) X Showers (intermittent rain)	Overcast		PHEMERAL PERENNIAL ITERMITTENT Run(s) X N/A	9. Water Appearance: clear milky foamy turbid	10. Water Odor: sewage chlorine fishy rotten eggs
Approximate depth of water in N/A Approximate width of water flue.	4-5 ft	tream Velocity: fast modera lature of the particles in the	te X slow N/A	light brown dark brown oily sheen	organic other: X none
N/A c) Approximate width of stream: (from top of bank to top of bank)	75 ft sand grav	elay/mud d el el oles (2 - 10" diam.)	one Little Some Most	other: 11. Presence of logs or la stream: x None Occas	
d) Approximate height of banks (challeft 15 ft right e) Approximate depth of pool(s):	20 ft 5.		occurring organic material Unknown Plentiful		
X N/A Plant Species Adjacent to stream (sci Populus deltoides	for 5	acing upstream, does this 0 feet on the: left side yes	right side <u>yes</u>	13. Pick the description the	
Understory: Lythrum salicaria, Eupatorium Phragmites australis, Dipsacu Euthamia graminifolia	n serotinum, Faci us laciniatus, for 5	tit is the % cover of trees left side 2 % ng upstream, does this st 0 feet on the: left side yes tit is the % cover of shrub	ream have shrub cover right side yes s per side of the stream?	Steeply X Gradual/I b) Shape of the channel: Narrow, Deep	cal/undercut sloping (>30°) X No slope (<30°) Wide, Deep
X X Lawn, X X Bou Paveme b) From the top of the streambank c Left P C T X Lawn,	m bank only (facing upstrear Trees Bushes, Shrubs fall grasses, forbs maintained landscape lders/Rocks/Rip Rap Gravel/Sand Bare Soil ent, Structures, Gabions		P U Natural Shelvin Change Destruc Presen Wracki Vegeta Sedime Leaf litt Scour X Deposi Multiple X X Bed an	Narrow, Shallow Mark Determination neck "U" if used to determination line impressed on the bank go the same series in the character of soil carbon of terrestrial vegetation of terrestrial vegetation of each of litter and debrising the sorting er disturbed or washed away to be observed flow events dispanse.	Wide, Shallow X e OHWM
15. In the vicinity of the stream, Che Left P C Natural Strea Ban Garbage/ji	Bare Soil vement, Structures eck "P" if present, "C" if comn amside plant cover degraded ks collapsed/eroded unk adjacent to the stream m or sheen on bank	non: Right P C	Invertebrates X Birds	D ake note of wildlife deterents such a	NRPW NRPWW ISOLATE UPLAND TNWRPW as bird wires) s, bird wires
Mud, silt, or s Garba Yard waste or Livestock in Activ	and in or entering the stream age/junk in the stream in bank (clippings, leaves, etc.) or with unrestricted access ely discharging pipes Other pipes hes entering stream		1 11	ians gth of stream. Double box on on east end. Large doube	

Stream Characterization	Date: 9/	19/2019 Time : 2	2:40pm Site:	ORD	County:	Cook
Field ID: Stream/Ditch	Stream Na	me:	Bensenville Di	ch - Section 3	Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo		Po Rif 5. Stream fas	habitats present: ol(s) files(s) Velocity: tt X moderate of the particles in the	Run(s) (N/A slow slow slow slow slow slow slow slow	N/A dark oily:	sewage chlorine ny fishy d rotten eggs brown organic brown other: sheen X none ge none nish
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	nnel depth):	boulders (>	- 10" diam.) > 10" diam.)	X	11. Presence of lostream: X None	ogs or large woody debris in Occasional Plentiful
e) Approximate depth of pool(s): N/A 2. Plant Species Adjacent to stream (science)		in s	stream: one Occasion	ccurring organic mater Unknown All Plenti tream have tree cove	extent to which ve own 0% ful 25%	getation shades the stream: 50% 100% X 75% 100% other%
Trees: Rhamnus cathartica, Sa Ulmus pumila	alix interior	What is the	t side <u>yes</u>	right side yes er side of the stream? right side 5	bank and the char a) Stream bank:	ription that best fits the stream nel (facing upstream):
Understory: Typha angustifolia, Lyth Solidago sempervirens	rum salicaria	Facing ups for 50 feet left	stream, does this stre on the: t side <u>no</u>	am have shrub cove right side no per side of the stream	b) Shape of the cl	Vertical/undercut Steeply sloping (>30°) Gradual/No slope (<30°) nannel: ep Wide, Deep
X T Lawn, Boul Paveme b) From the top of the streambank o Left P C X X X X X Lawn, T Lawn,	Trees Bushes, Shrub; all grasses, ord maintained land ders/Rocks/Rip Gravel/Sand Bare Soil nt, Structures,	cing upstream): Spanscape Rap Gabions	Right PC X X X X X Right P C X X X		x Narrow, Sha h Water Mark Determination erved; Check "U" if used to on Natural line impressed on the Shelving Changes in the character of Destruction of terrestrial veromes of litter and debrict of the struction of terrestrial veromes. Wracking Vegetation matted down; become sorting Leaf litter disturbed or wast scour Deposition Multiple observed flow even Bed and banks Water staining Change in plant community	etermine OHWM he bank f soil getation s ent, or absent hed away
15. In the vicinity of the stream, Che Left P C Natural Strea Bani Garbage/ju Foa Mud, silt, or s Garba	Bare Soil vement, Structuck "P" if preser mside plant cooks collapsed/erank adjacent to land in or enteringe/junk in the sank (clipping.	ver degraded odded the stream oank ng the stream stream stream s, leaves, etc.)	Right P C	X Invert Birds Mamr Reptil Fish	mals	NRPW NRPWW ISOLATE UPLAND TNWRPW
Livestock in Active	or with unrestri ely discharging Other pipes nes entering str	cted access pipes	X	19. Additional Condouble box reservoir; ve	culverts from under Irving Pa ery short	ark Rd; flows into Silver Creek Last Revised: 09/25

Stream Characterization	Date: 8/16/2019	Time: 11:45 AM Site:	ORD	County:	Cook
Field ID: stream/pitch	Stream Name:	Crystal Cree	k Section 1	Investigators:	BJH, CBM
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo	unknown	<u> </u>	to none	clear milky foamy turbid liight br dark br oily sh	sewage chlorine fishy rotten eggs rown organic rown een X none
N/A c) Approximate width of stream: (from top of bank to top of bank)	25-30ft 35 ft	can't see bottom	ne Little Some Most	stream:	
d) Approximate height of banks (cha left 2 ft right e) Approximate depth of pool(s): X N/A 2. Plant Species Adjacent to stream (scients)	2 ft	boulders (> 10" diam.) bedrock 7. Presence of naturally or in stream: algae None Occasions 8. Facing upstream, does this st for 50 feet on the:	Unknown X Plentiful tream have tree cover	12. Pick the categor extent to which vege X 0% 25%	ry that best describes the etation shades the stream: 50% 100% 75% 0ther% tion that best fits the stream
Trees: N/A Understory: Lythrum salicaria, Juncus dudi vulpinoidea, Sagittaria latifolia, Salix interior		left side no What is the % cover of trees peleft side 0 % Facing upstream, does this strefor 50 feet on the: left side yes	right side <u>0</u> % am have <u>shrub</u> cover right side <u>no</u>	St	Vertical/undercut leeply sloping (>30°) adual/No slope (<30°)
14. Describe the streamside cover. a) Along the water's edge and stream Left P C X X X Ta Lawn, I Bould Paveme b) From the top of the streambank of Left P C X X X Lawn, I Bould Left P C Left A C C C C C C C C C C C C C C C C C C C	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil soit to 50 fee t: Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil and Bare Soil brack Trees Bushes, Shrubs maintained landscape Boulders/Rocks Gravel/Sand	Right PC X X X X	Observer initials: BJH 16. Ordinary High Water Check "P" if observed; C P U Natura Shelvir Chang Destru X Preser Wracki Vegeta Sedime Leaf lit Scour Deposi Multiple Bed ar Water : X Chang	Narrow, Deep Narrow, Shallor Mark Determination heck "U" if used to det I line impressed on the ag es in the character of sction of terrestrial vege (ce of litter and debris and the state of the state	Wide, Deep X Wide, Shallow Permine OHWM Permine bank Permine of the soil station Permine of the soil station of the soil station Permine of the soil station of the soil statio
15. In the vicinity of the stream, Chec Left P C Natural Stream Bank X Garbage/ju Foar Mud, silt, or st Garba Yard waste on Livestock in Active	Bare Soil vement, Structures ck "P" if present, "C" if or a misside plant cover degrates collapsed/eroded unk adjacent to the stream or sheen on bank and in or entering the stream; bank (clippings, leaves or with unrestricted accelly discharging pipes Other pipes nes entering stream	Right P C aded	Invertebrates Birds Mammals X Reptile/Amph Fish 19. Additional Comments water very stagnant	//D ake note of wildlife deterents List itans frog	NRPW NRPWW ISOLATE UPLAND TNWRPW s such as bird wires)

Stream Characterization	Date:	7/16/2019	Time:	Site:	ORD	County:	Cook
Field ID Stream Ditch	Stream	Name:		Crystal Creek,	Section 2	Investigators:	BJH, KAS
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo	ur w:		Circle flow r Stream hab X Pool(s Riffles Stream Velo fast An Advire of the stream of the stream velous fast	itats present:) (s) coity: moderate ne particles in the si	RMITTEND RUN(S) N/A Slow X N/A tream bottom:	clear milky foam X turbid light dark	sewage chlorine fishy d rotten eggs brown organic brown other: sheen X none ge none nish
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha		60 ft	silt/clay/mud sand gravel cobbles (2 - 10 boulders (> 10)" diam.)	X	11. Presence of lo stream: X None	gs or large woody debris in Occasional Plentiful
left 20 ft righ e) Approximate depth of pool(s):	t	20 ft	in stream	am: Occasional	urring organic material Unknown Plentiful		ory that best describes the stream: X 50%
Plant Species Adjacent to stream (scient Trees: Salix interior, Cornus sericea, Understory:	entific name):		for 50 feet on t left sid	the: No cover of trees per	right side No side of the stream? right side %		iption that best fits the stream nel (facing upstream): Right Vertical/undercut
Typha angustifolia, Lythrum si Sambucus canadensis, Vitis i			for 50 feet on t left sid	the: le <u>No</u>	right side No er side of the stream? Observer initials:	b) Shape of the ch	Steeply sloping (>30°) Aradual/No slope (<30°) Jannel: Ep Wide, Deep
T. Lawn, X X Boul X Paveme b) From the top of the streambank o Left P C T. Lawn,	n bank onl Trees Bushes, St all grasses maintained ders/Rocks Gravel/Sa Bare So nt, Structu ut to 50 fee	y (facing ups		Right PC X X X X X X X X X X C C C C C C C C C	Check "P" if observed P U Nat She Chack "P" and She Chack "P" and She Chack "P" and She Chack The Chack Th	ter Mark Determination ; Check "U" if used to describe the describe on the character of truction of terrestrial vegoence of litter and debrished by the describe of the character of the describe of litter and debrished on the describe of litter and devention matted down; beginnent sorting for the described or wash	etermine OHWM ne bank f soil getation s ent, or absent ned away
15. In the vicinity of the stream, Che Left P C Natural Strea Banl X X Garbage/ju Foar Mud, silt, or s X X Garba	mside plar as collapse ink adjacer n or sheen and in or e ge/junk in bank (clip	ructures esent, "C" if of the cover degrated deroded into the streat on bank intering the st the stream pings, leaves restricted acce	aded im ream , etc.)	Right PC XXX	DEI TNN X RPN RPN 18. Observed Fauna Invertebra Birds Mammals Reptile/Ar Fish 19. Addiitonal Commen	NW N N N N N N N N N N N N N N N N N N	NRPW NRPWW ISOLATE UPLAND TNWRPW
	Other pip	oes				oft box culvert under roa	d; armored with cobbles Last Revised: 08/19

Stream Char	acterization	Date:	7/19/2019	Time:	Site:	C	RD	County:	Cook
Field ID Stre	eam/Ditch	Stream	Name:		Crystal Cr	eek, Section	3	Investigators:	BJH, KAS
	eavy rain) X eady rain) (intermittent rain) ate depth of water in			Circle flow re Stream habit Pool(s) Riffles(Stream Velo fast	tats present:	Run(s) X N/A		dark	sewage chlorine y fishy d rotten eggs brown organic brown other:
,	N/Aate width of water flowN/A	w: 	18 ft	6. Nature of th	•	the stream bott		oily s orang greer other	nish X
(from top top of bar	•		60 ft	silt/clay/mud sand gravel cobbles (2 - 10			X	stream:	gs or large woody debris in Occasional Plentiful
	te height of banks (char 0 ft right		20 ft	boulders (> 10' bedrock 7. Presen in strea	ce of naturally	y occurring orga	anic material		ory that best describes the getation shades the stream:
,	ate depth of pool(s): N/A Adjacent to stream (scien	ntific name):		None 8. Facing upstr	X Occasi		Unknown Plentiful	0% 25%	50% 100% X 75% other%
Trees: Morus sp.	· · · · · · · · · · · · · · · · · · ·			for 50 feet on the left side	he: e <u>No</u>	right side	No_		iption that best fits the stream nel (facing upstream):
Understory: Phragmite	es australis, Typha ar	ngustifolia,		left side Facing upstrea for 50 feet on the	m, does this s	% right side	wrub cover	Left X	Vertical/undercut Steeply sloping (>30°) xadual/No slope (<30°)
14 Describe th	e streamside cover.	Chock "D"	if propert "C	What is the % o		<u>bs</u> per side of t Observe	he stream?	b) Shape of the ch Narrow, Dee Narrow, Sha	p Wide, Deep Ilow Wide, Shallow X
a) <u>Along the wa</u> Left P C	ter's edge and stream	<u>bank onl</u> Trees	y (facing ups		Right P C	Check '	P" if observed; C U Natura	heck "U" if used to de	etermine OHWM
X X	Ta Lawn, n	Bushes, Shall grasses naintained lers/Rocks Gravel/Sa	, forbs I landscape s/Rip Rap		X X		Destru	es in the character of ction of terrestrial veg ce of litter and debris	getation
X b) From the top	Pavemer of the streambank ou	Bare Sont, Structu	oil res, Gabions		Right		Vegeta Sedime	tion matted down; be ent sorting ter disturbed or wash	
P C X X X X X	Ta Lawn, n	Trees Bushes, Sh Ill grasses naintained Boulders/F	nrubs , forbs I landscape		P C		Bed ar	e observed flow even d banks	
XX		Gravel/Sa Bare So ement, St	and oil		X X	17. Wate	rs Type DELIN TNW TNWW		RPWNN NRPW NRPWW ISOLATE
15. <u>In the vicinit</u> Left P C	y of the stream, Chec	ck "P" if pr	esent, "C" if o	common:	Right P C		RPW RPWW		UPLAND TNWRPW
X X X	Garbage/jui Foan Mud, silt, or sa Garbag	s collapse nk adjace n or sheer and in or e ge/junk in	ed/eroded ont to the streat on bank ontering the st the stream	ream	x x x x		Invertebrates Birds Mammals Reptile/Amph	List	
X		or with uni	restricted acc ging pipes pes		X	roadside segment to segme	1 via box culvert	east end; phragmite	9-1 connected at southeast end s dominated; connected to ler Mannheim Rd via box culverts

Stream Characterization	Date: 7/16/2019	Time: AM Site:	ORD	County:	Cook
Field ID Stream/Ditch	Stream Name:	Crystal Cree	Section 4	Investigators:	BH, KS
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo	up to 12 inches	4. Stream habitats present: Pool(s) Riffles(s) 5. Stream Velocity: fast moderate 6. Nature of the particles in the	X slow N/A	9. Water Appearand clear milky foamy X turbid light be dark be oily strong green other:	sewage chlorine fishy rotten eggs orown orown orown neen X none le none ish
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	70+ feet	silt/clay/mud sand gravel cobbles (2 - 10" diam.) boulders (> 10" diam.)	X	stream:	gs or large woody debris in Occasional Plentiful
e) Approximate depth of pool(s):	30 feet	7. Presence of naturally or in stream: None Occasion	ccurring organic material X		ory that best describes the etation shades the stream: 50% X 100% 75% other%
Plant Species Adjacent to stream (scient for stream) Acer negundo, Salix interior Rhamnus cathartica, Cornus serices Understory: Typha angustifolia, Juncus nodosus Toxicodendron radicans, Scirpus	Lythrum salicaria	8. Facing upstream, does this s for 50 feet on the: left side Y What is the % cover of trees peleft side 30 % Facing upstream, does this strefor 50 feet on the: left side Y	right side Y right side of the stream? right side 30 %	a) Stream bank: Left X Gr	vertical/undercut steeply sloping (>30°) adual/No slope (<30°)
14. Describe the streamside cover.	•		per side of the stream? Observer initials: ks 16. Ordinary High Water	b) Shape of the cha Narrow, Deep Narrow, Shall Mark Determination	o Wide, Deep low Wide, Shallow X
T Lawn, X X Boul X Paveme b) From the top of the streambank o Left P C X X X X X Lawn, T Lawn,	Trees Bushes, Shrubs all grasses, ferns maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil nt, Structures, Gabions	Right P C X X X X X	Shelvin Change Destrue X X Presen X X Wracki Vegeta Sedime Leaf litt Scour X X Deposi Multiple X X Bed an X Water X Change	line impressed on the ges in the character of ction of terrestrial vegice of litter and debrising tion matted down; being the sorting ter disturbed or washed	e bank soil etation nt, or absent ed away
15. In the vicinity of the stream, Che Left P C Natural Strea Bani X Garbage/ju Foa Mud, silt, or s X X Garba	Bare Soil vement, Structures	Right P C raded am X stream X X	17. Waters Type DELINI TNW X RPW RPWW 18. Observed Fauna (m X Invertebrates Birds Mammals Reptile/Amph Fish	Alphake note of wildlife deterent List mosquitos	RPWNN NRPW NRPWW ISOLATE UPLAND TNWRPW Its such as bird wires)
Livestock in Active	or with unrestricted ac ely discharging pipes Other pipes nes entering stream		19. Addiitonal Comments 2 roadside ditches drain in exits under I-294 via doub booms span stream near of Datasheet entered by:	le box culver (10x8ft);	; filled/dominated with Typha; 2

Stream Charac	erization	Date:	8/23/2019	Time:	2:49 PM	Site:		ORE)	County:	Cook	
Field ID: Stream	(Oitch)	Stream	Name:			Dite	:h 1			Investigators:		BJH, KAS, CBM
b) Approximate	rain) X rmittent rain)	0-3 w:		4. Strea 5. Strea	m habitats Pool(s) Riffles(s) m Velocity: fast re of the pa	present: moderate	Run(: X N/A	Slow		clea milk foan turbi light dark oily orar	r y ny id brown brown sheen nge none	10. Water Odor: sewage chlorine fishy rotten eggs organic other: X none
c) Approximate (from top of b top of bank) d) Approximate h			6 ft	boulders	(2 - 10" dia s (> 10" dia				X	11. Presence of lost stream: None X	ogs or large	
e) Approximate X II 2. Plant Species Adja	right depth of pool(s): I/A		nches	8. Facin	Presence o in stream: None X	Occasion	nal		Unknown Plentiful	12. Pick the cated extent to which ve 0% 25%	getation sha X 50% 75% othe	the stream:
Trees: Ailanthus alti Understory:				What is	left side the % cove left side	<u>yes</u> r of <u>trees</u> p	right	f the str side	0_%	bank and the char a) Stream bank: Left	nnel (facing u	upstream): Right
Solidago sen Poplar balsai				for 50 fe	et on the: left side	yes yes of shrubs	right	side of the	no_ stream?	b) Shape of the cl	ер	
14. Describe the st a) Along the water's Left P C X X X	edge and stream E Ta Lawn, r	Trees Bushes, Shall grasses,	y (facing ups rubs forbs landscape		P				if observed; U Natur Shelv Chan Destr	ges in the character of uction of terrestrial ve	determine Of the bank of soil egetation	нwм
b) From the top of t Left P C	Pavemer		and oil es, Gabions		X P	Right			Wrac Vege Sedir Leaf Scou Depo	tation matted down; b nent sorting itter disturbed or wasl	ent, or abse	nt
X	Ta Lawn, r	Bushes, Shall grasses, maintained Boulders/Ro Gravel/Sa Bare So	forbs landscape ocks and				17. V	X X X	X Bed a X Wate X Chan	and banks r staining ge in plant community		RPWNN NRPW
15. In the vicinity of Left		rement, Str	uctures	common:	1	Right	7.0	X	TNW TNW RPW RPW	w wd		NRPWW ISOLATE UPLAND TNWRPW
X X X	Garbage/ju Foan Mud, silt, or sa	s collapsed nk adjacen n or sheen and in or er ge/junk in t	d/eroded It to the streat on bank Intering the stream	ım ream	X		18.	X	rved Fauna (Invertebrate Birds Mammals Reptile/Amp Fish			d wires)
	Livestock in o		estricted acc ging pipes es					large l	al Comment berm on left	s side; 30ft high		Last Pavised: 00/25

Stream Characterization	Date: 8/23/2019	Time: Si	ite: ORD	County:	Cook
Field ID: Stream/Ditch	Stream Name:		Ditch 2	Investigators:	BJH, CBM, KAS
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo	6 inches	6. Nature of the particles	INTERMITTENT ent: Run(s) X N/A oderate slow	X N/A X dark oily s orang greer	sewage chlorine fishy for otten eggs brown brown brown heen X none
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	25 ft	silt/clay/mud sand gravel cobbles (2 - 10" diam.) boulders (> 10" diam.) bedrock	X	stream:	gs or large woody debris in Occasional Plentiful
left 8 ft righ e) Approximate depth of pool(s):		7. Presence of nature in stream:	ccasional	extent to which veg nknown 0% entiful 25%	ory that best describes the letation shades the stream: 50% X 100% 75% other%
Plant Species Adjacent to stream (scient Trees:	entific name):	for 50 feet on the:	es this stream have <u>tree</u> c es right side <u>y</u>	Pick the descri	ption that best fits the stream nel (facing upstream):
Understory: Phragmites australis		left side Facing upstream, does t for 50 feet on the: left sider	his stream have shrub co	2 % Left over X S Ono b) Shape of the ch	
X X Lawn, X Boul Paveme b) From the top of the streambank o Left P C T Lawn,	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil int, Structures, Gabioni ut to 50 fee t: Trees Bushes, Shrubs all grasses, forbs maintained landscape Boulders/Rocks	Right P X X X X Right Right	Check "P" if o	High Water Mark Determination bibserved; Check "U" if used to de U Natural line impressed on the Shelving Changes in the character of Destruction of terrestrial vegence of litter and debrise. Wracking Vegetation matted down; be Sediment sorting Leaf litter disturbed or wash Scour Deposition Multiple observed flow even X Bed and banks Water staining Change in plant community	n etermine OHWM ne bank s soil getation ent, or absent ed away
15. In the vicinity of the stream, Che Left P C X Natural Strea Bani X Garbage/ju Foa Mud, silt, or s X Garba	Gravel/Sand Bare Soil vement, Structures ck "P" if present, "C" if miside plant cover deg s collapsed/eroded ink adjacent to the stre m or sheen on bank and in or entering the s ge/junk in the stream bank (clippings, leave	Right P 0	18. Observe	DELINEATE TNW TNWW RPW RPWWD d Fauna (make note of wildlife deterer List vertebrates insect: rds ammals eptile/Amphians	,
Livestock in Active	or with unrestricted ac ely discharging pipes Other pipes nes entering stream		19. Additional (located b	petween parking lots and related	roads Last Revised: 09/25

Stream Characterization Dat	e: 8/12/2019 Time: 2	:10pm Site:	ORD	County:	Cook
Field ID: Stream Ditch Stre	eam Name:	Ditch 3		Investigators:	ВЈН
, , ,	Poo Riffl	abitats present: (s)	MITTENT Run(s) M/A X slow N/A o stagnant	9. Water Appearance:	other:
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (channel do	silt/clay/mud sand gravel cobbles (2 - epth): boulders (>	10" diam.)		11. Presence of logs or stream: X None Occa	large woody debris in
left 1-2 ft right e) Approximate depth of pool(s):	in st	<u></u>	X Unknown Plentiful	12. Pick the category the extent to which vegetation X 0% 25%	
Plant Species Adjacent to stream (scientific not stream) Trees: Salix interior	8. Facing up for 50 feet o		m have <u>tree</u> cover ight side <u>no</u>	13. Pick the description bank and the channel (fa	
Understory: Phragmites australis, Persica	left : aria sp., Facing upst for 50 feet o	ream, does this stream on the: side <u>no</u> r % cover of <u>shrubs</u> per	ight side 0 % nave shrub cover ight side no	X Steep	tical/undercut ly sloping (>30°) Il/No slope (<30°) Wide, Deep Wide, Shallow
Bushe Tall gra Lawn, mainta X X Boulders/R Grav Ba Pavement, Str b) From the top of the streambank out to 5 Left P C Bushe X X Tall gra Lawn, mainta Boulde	rees s, Shrubs sses, forbs ained landscape Rocks/Rip Rap rel/Sand re Soil ructures, Gabions 0 fee t: rees s, Shrubs sses, forbs	Right PC XXX Right PC XXX XX XX XX XX XX XX XX XX	6. Ordinary High Water Check "P" if observed; Cf P U Natural X X Shelvin Change Destruc X Presen Wrackir Vegetal Sedime Leaf litte Scour Deposit Multiple Bed and Water s X X Change	Mark Determination neck "U" if used to determ line impressed on the bar g us in the character of soil tion of terrestrial vegetation the of litter and debris the of litter	ine OHWM on absent vay
Ba Pavemen 15. In the vicinity of the stream. Check "P" Left P C Natural Streamside Banks coll Garbage/junk ad Foam or s Mud, silt, or sand in	rel/Sand re Soil it, Structures if present, "C" if common: e plant cover degraded apsed/eroded jacent to the stream heen on bank or entering the stream ik in the stream	Right	7. Waters Type DELINE TNW X RPW RPWW 8. Observed Fauna (ma X Invertebrates Birds X Mammals Reptile/Amphi	D lake note of wildlife deterents such List butterflies rabbit	RPWNN NRPW NRPWW ISOLATE UPLAND TNWRPW h as bird wires)
Yard waste on bank Livestock in or with X Actively dis Othe	(clippings, leaves, etc.) h unrestricted access charging pipes er pipes stering stream	X	Additional Comments flows east; riprap line	ed for most of extent; 2 cu /junk at west end; constru- miter road	

Stream Characterization	Date: 8/28/2019	Time: 1:30pm Site:	ORD	County:	Cook
Field ID: Stream Oitch	Stream Name:	Dito	ch 4	Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo	Overcast Clear/Sunny stream: 3 inches	4. Stream habitats present:		9. Water Appearance X clear milky foamy turbid light bro dark bro oily she orange	sewage chlorine fishy rotten eggs own organic own other:
N/A c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha		silt/clay/mud sand gravel cobbles (2 - 10" diam.) boulders (> 10" diam.)	one Little Some Most	stream:	or large woody debris in
e) Approximate depth of pool(s): X N/A 2. Plant Species Adjacent to stream (scie	25 ft	bedrock		extent to which vegets 0% 25%	that best describes the ation shades the stream: 50% 75% other%
Trees: Understory: Cyperus esculentus, Scirpus fi		left side no no left side no strikes strikes.	right side 0 %	bank and the channel a) Stream bank: Left	
Echinochloa crus-galli, Persica	ria lapathifolia	for 50 feet on the: left side <u>no</u> What is the % cover of <u>shrubs</u>	right side <u>no</u>		dual/No slope (<30°) inel: Wide, Deep
X X Ta Lawn, I Bould Paveme b) From the top of the streambank ou Left P C X X Ta Lawn, I Law	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil nt, Structures, Gabions at to 50 fee t: Trees Bushes, Shrubs maintained landscape double for the solution of the soluti		16. Ordinary High Water Check "P" if observed; Cl P U Natural Shelvin Change Destruc Presen Wrackit Vegeta Sedime Leaf litt Scour Deposit Multiple Bed an Water s X X Change	Mark Determination neck "U" if used to dete line impressed on the lig se in the character of so stion of terrestrial veget ce of litter and debris ng tion matted down; bent ent sorting er disturbed or washed tion e observed flow events d banks staining e in plant community	ermine OHWM bank bil ation , or absent l away
15. In the vicinity of the stream, Chec Left P C Natural Strea Bank Garbage/ju Foar	mside plant cover degra s collapsed/eroded nk adjacent to the strea n or sheen on bank	Right P C	Invertebrates Birds Mammals	D ake note of wildlife deterents:	NRPW NRPWW ISOLATE UPLAND TNWRPW such as bird wires)
Garba Yard waste on Livestock in Active	and in or entering the str ge/junk in the stream bank (clippings, leaves, or with unrestricted according discharging pipes Other pipes les entering stream	, etc.)	Reptile/Amph Fish 19. Additional Comments 48" culvert at	north and south ends	Last Revised: 09/25

Stream Characterization	Date: 8/28/2019	Time: 2:00pm	Site:	ORD	County:	Cook
Field ID: Stream Ditch	Stream Name:		Ditch 6		Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo	12 ft	4. Stream habitats proof(s) Riffles(s) 5. Stream Velocity: fast 6. Nature of the pare	oresent: R X N moderate rticles in the stream	un(s) //A X slow N/A	9. Water Appearan X clear milky foamy turbid light t dark t oily sl orang green other:	sewage chlorine fishy rotten eggs organic brown brown heen X none ge none
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	35 ft	silt/clay/mud sand gravel cobbles (2 - 10" dian boulders (> 10" dian	m.)	x	11. Presence of log	gs or large woody debris in Occasional Plentiful
left 3 ft righ e) Approximate depth of pool(s): X N/A 2. Plant Species Adjacent to stream (scients)		in stream: None 8. Facing upstream,	Occasional	ng organic material Unknown X Plentiful	extent to which veg 0% 25%	ory that best describes the etation shades the stream: 50% 100% X 75% other%
Trees:		for 50 feet on the: left side What is the % cover left side	r of <u>trees</u> per sid	ght side <u>no</u> e of the stream? ght side <u>0</u> %		ption that best fits the stream nel (facing upstream):
Understory: Echinochloa crus-galli, Typha Scirpus fluviatilis, Schoenople		Facing upstream, do for 50 feet on the: left side What is the % cover	<u>no</u> riç r of shrubs per s	ght side <u>no</u>		p Wide, Deep
X X Lawn, Boul Paveme b) From the top of the streambank o Left P C T. Lawn, Lawn,	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil nt, Structures, Gabions ut to 50 fee t: Trees Bushes, Shrubs all grasses, forbs maintained landscape Boulders/Rocks Gravel/Sand	stream): F P X	Right C X	X Destru Preser Wracki Vegeta Sedim Leaf lit Scour Deposi Multipl Bed an Water X X Chang	heck "U" if used to de I line impressed on the ges in the character of ction of terrestrial veg ice of litter and debris ing it in matted down; be ent sorting ter disturbed or washed tion e observed flow event and banks staining e in plant community	etermine OHWM se bank soil getation ent, or absent ed away ts
X X Par 15. In the vicinity of the stream, Che Left	Bare Soil vement, Structures ck "P" if present, "C" if		Right	DELIN TNW TNWW X RPW RPWW	/D	NRPW NRPWW ISOLATE UPLAND TNWRPW
Banl Garbage/ju Foal Mud, silt, or s Garba Yard waste on	mside plant cover degrass collapsed/eroded ink adjacent to the strem or sheen on bank and in or entering the sige/junk in the stream bank (clippings, leave:	am tream s, etc.)		Invertebrates Birds Mammals Reptile/Amph		its such as bird wires)
Active	or with unrestricted accepts discharging pipes Other pipes nes entering stream	X		Additional Comments Additional Comments	drainage ditch	Last Pavisad: 00/25

Stream Characterization	Date: 9/26/2019	Time: 1:10pm	Site:	ORD	County:	Cook
Field ID: Stream Ditch	Stream Name:		Ditch 7		Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo	3-4 inches	Circle flow regime A. Stream habitats p Pool(s) Riffles(s) Stream Velocity: fast 6. Nature of the par	moderate	un(s) //A slow X N/A	9. Water Appearan clear milky foamy turbid light b X dark b oily sl orang green other:	sewage chlorine fishy rotten eggs orown orown orown heen X none
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	25 ft	silt/clay/mud sand gravel cobbles (2 - 10" diar boulders (> 10" dian	m.)	X	11. Presence of log	gs or large woody debris in Occasional Plentiful
e) Approximate depth of pool(s): X N/A Plant Species Adjacent to stream (science)		bedrock 7. Presence of in stream: None 8. Facing upstream, for 50 feet on the:	Occasional	ng organic material Unknown X Plentiful	extent to which veg X 0% 25%	ory that best describes the etation shades the stream: 50% 100% 75% other%
Trees: Understory: Typha angustifolia, Solidago s Apocynum cannibinum, Scirpi		left side What is the % cover left side Facing upstream, do for 50 feet on the: left side What is the % cover	r of <u>trees</u> per sid 0 % rig Des this stream h	ght side <u>0</u> % ave <u>shrub</u> cover ght side <u>no</u>	a) Stream bank: Left X	Vertical/undercut Steeply sloping (>30°) radual/No slope (<30°)
Describe the streamside cover. Along the water's edge and stream Left C	•	C" if common stream):	11	bserver initials: 5. Ordinary High Wate Check "P" if observed; C	x Narrow, Shal r Mark Determination theck "U" if used to de	low Wide, Shallow n etermine OHWM
Lawn, Boul	all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil nt, Structures, Gabions ut to 50 fee t:		X X	Destru Preser Wrack Vegeta Sedim	ation matted down; be ent sorting ter disturbed or washe	etation nt, or absent
T Lawn,	Trees Bushes, Shrubs all grasses, forbs maintained landscape Boulders/Rocks Gravel/Sand	X	X	Multipl Bed ar Water	e observed flow event d banks staining e in plant community	ts RPWNN
X X Par 15. In the vicinity of the stream, Che	Bare Soil vement, Structures		Right	X DELIN TNW TNWW RPW RPWW	,	NRPW NRPWW ISOLATE UPLAND TNWRPW
Bani Garbage/ju Foai Mud, silt, or s Garba Yard waste or	mside plant cover degras collapsed/eroded ink adjacent to the stream or sheen on bank and in or entering the sige/junk in the stream bank (clippings, leaves	am X tream s, etc.)		X Invertebrates Birds Mammals Reptile/Ampt		ts such as bird wires)
Activo	or with unrestricted accepts discharging pipes Other pipes nes entering stream	cess		9. Additional Comments Flows south but no	outlet	Last Pavisad: 00/25

Stream Characterization Date	te: <u>9/26/2019</u> Tir	me: 5:00pm	Site:	ORD	County:	DuPage
Field ID: Stream Ditch Str	eam Name:		Ditch 8		Investigators:	CBM, BJH
	am: 5. \$ 0-6 inches	Circle flow regime: Stream habitats pre Pool(s) Riffles(s) Stream Velocity: fast Nature of the partic	moderate Cles in the stream	un(s) //A slow x N/A	clear milky foam turbid	sewage chlorine fishy forown orown brown heen ge none nish X sewage chlorine fishy rotten eggs organic other: none
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (channel of	6-20 ft gra	avel bbles (2 - 10" diam. ulders (> 10" diam.	.)	X	11. Presence of log	gs or large woody debris in Occasional Plentiful
e) Approximate depth of pool(s): X N/A 2. Plant Species Adjacent to stream (scientific r	3 ft 7.	in stream:	Occasional does this stream	ung organic material Unknown X Plentiful n have tree cover ght side yes	extent to which veg 0% 25% 13. Pick the descri	pry that best describes the letation shades the stream: 50%
Populus deltoides Understory: Typha angustifolia, Phragmites aus Solidago sempervirens	Wh	hat is the % cover of left side cing upstream, does 50 feet on the: left side hat is the % cover of	of trees per sid 0 % right es this stream h no right of shrubs per sid	e of the stream? ght side 40 % ave shrub cover ght side yes side of the stream?	a) Stream bank: Left X S GI b) Shape of the ch. Narrow, Deel	Vertical/undercut Steeply sloping (>30°) radual/No slope (<30°) annel: p Wide, Deep
X X Bushe Tall gra Lawn, maint Soulders/I Gra Bar Pavement, St Left P C Bushe Tall gra Lawn, maint Soulders/I Gra Bar Pavement, St Left P C Bushe Tall gra Lawn, maint Boulders Boulders Bushe Tall gra Lawn, maint Bould	rrees es, Shrubs asses, forbs tained landscape Rocks/Rip Rap vel/Sand are Soil tructures, Gabions	am): Rig P X X X	ght C X X X G G G G G G G G G G G G G G G G	Check "P" if observed; P U Natu Shel Char Dest Pres Wrac Vege Sedi Leaf Scou Depo Multi Bed Wate	ges in the character of ruction of terrestrial veg ence of litter and debris king tation matted down; be ment sorting litter disturbed or wash	etermine OHWM lee bank soil getation ent, or absent leed away
Bax X X Pavemen 15. In the vicinity of the stream, Check "PLeft PC Natural Streamside Banks colon Streamside Bank	are Soil nt, Structures	Rig P X X x x x	ght C 1:	X DELI TNW TNW RPW RPW B. Observed Fauna Invertebrate Birds Mammals Reptile/Am Fish 9. Additional Comment Some area	WD (make note of wildlife deteren	NRPW NRPWW ISOLATE UPLAND TNWRPW

Stream Characteri	zation Date:	8/28/2019	Time: 11:55	AM Site:		ORD		County:	Cook	
Field ID: (tream/pi	tch Strea	m Name:		Di	tch 9			Investigators:	CBM, BJ	Н
Weather in the past 24 Storm (heavy rain Rain (steady rain Showers (intermi 1. a) Approximate dep N/A b) Approximate widi	Overca X Clear/S ttent rain) th of water in stream:	st unny S inches	3. Circle flow re 4. Stream habit Pool(s) Riffles(s) 5. Stream Veloo fast 6. Nature of the	ats present: s) city: modera		slow cottom:	N/A	9. Water Appearan X clear milky foamy turbid light t dark t oily sl orang green	sewag chlorir fishy rotten organi other: heen X none lish	e e eggs
c) Approximate widi (from top of bank top of bank) d) Approximate heigh	to	45-50 ft n):	silt/clay/mud sand gravel cobbles (2 - 10' boulders (> 10"	' diam.)			X	stream:	gs or large woody debris in	ul
left 20 ft e) Approximate dep x N/A 2. Plant Species Adjaceni	th of pool(s):	6 ft	7. Presentin strea None 8. Facing upstre	x Occasi	onal	U F	Jnknown Plentiful		ory that best describes the etation shades the stream 50% 75% other - %	: 100%
Trees:			for 50 feet on the left side		right s	side _	no		ption that best fits the strea nel (facing upstream):	m
Schoenoplectus	a, Phragmites austral abernaemontane, a, Lythrum salicaria		What is the % of left side Facing upstreat for 50 feet on the left side What is the % of	m, does this s ne: no cover of shrul	right stream have right stream side	sideshrub side of the st	0 % cover no tream?	b) Shape of the cha	Wide, Deep	Right X
14. Describe the strear a) Along the water's edi Left P C X X X b) From the top of the s Left P C X X X	ge and stream bank of Tree Bushes, Tall grasse Lawn, maintain Boulders/Roc Gravel/Bare Pavement, Struc treambank out to 50 f Tree Bushes, Tall grasse Lawn, maintain Boulders Gravel/	es Shrubs es, forbs ed landscape ks/kip Rap Sand Soil tures, Gabions ee t: es ses, forbs ed landscape ks/kip Rap Sand Soil And Soil Soil Soil Soil Soil Soil Soil Soil		Right PC XXX Right PC XXX XX	16. C	-	observed; Cr U Natural Shelving Change Destruc Presend Wrackir Vegetat Sedime Leaf littl Scour X Deposit Multiple X Bed and Water s Change	s in the character of tion of terrestrial veg the of litter and debris and it in matted down; be not sorting the restriction of the sorting the sorting of the sorting of the sorting the sorting of the sorting of the sorting the sorting of the sorting of the sorting of the sorting of the sorting the sorting of the sor	n etermine OHWM e bank soil letation nt, or absent ed away ts	
15. In the vicinity of the Left	Bare Pavement, s stream, Check "P" if	Structures	ommon:	Right		X	DELINE TNW TNWW RPW RPWWI		NRPW NRPWW ISOLATE UPLAND TNWRPW	
N	Natural Streamside pl Banks collap: Garbage/junk adjac Foam or shed Mud, silt, or sand in or Garbage/junk i ard waste on bank (cl	sed/eroded ent to the strea en on bank entering the str n the stream	m ream	P C	18.	X E	red Fauna (ma nvertebrates Birds Mammals Reptile/Amphi Fish	ke note of wildlife deteren List mallards ans	ts such as bird wires)	
X	Livestock in or with u Actively discha Other p Ditches enter	nrestricted acce arging pipes pipes		X			I Comments		Last Pavisad	20/05

Stream Characterization	Date: 7/15/2019	Time: AM Site:	ORD	County:	Cook
Field ID: Stream Ditch	Stream Name:	Ditch 1	0	Investigators:	BJH, KAS
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo	up to 12 inches	4. Stream habitats present: Pool(s) Riffles(s) 5. Stream Velocity: fast moderate 6. Nature of the particles in the st	Run(s) N/A stagnant X slow N/A ream bottom: Little Some Most	9. Water Appearant clear milky foamy X turbid light b dark b oily sh orange greeni other:	sewage chlorine fishy rotten eggs rown organic other: leen none e none
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	20 feet	silt/clay/mud sand gravel cobbles (2 - 10" diam.) boulders (> 10" diam.)	X	stream:	s or large woody debris in Occasional Plentiful
e) Approximate depth of pool(s):	t 12 feet	bedrock 7. Presence of naturally occi in stream: None Occasional	urring organic material X Unknown Plentiful		ry that best describes the etation shades the stream: X 50% 100% 75% other%
Plant Species Adjacent to stream (sci Trees: Populus deltoides, Rhamnus cathar Fraxinus pennsylvanica, Morus rubr Understory: Typha angustifolia, Nepeta cataria, i Dipsacus laciniatus, Dipsacus fullon Phragmites australis, Hordeum juba	ica, Morus alba, a _ythrum salicaria, um,	8. Facing upstream, does this stre for 50 feet on the: left side	right side yes side of the stream? right side 33 %	bank and the channer a) Stream bank: Left X Si	vition that best fits the stream el (facing upstream): Right Vertical/undercut teeply sloping (>30°) Adual/No slope (<30°)
Phalaris arundinacea	,	What is the % cover of shrubs pe	er side of the stream?	b) Shape of the cha Narrow, Deep	Wide, Deep
T Lawn, X X Boul X Paveme b) From the top of the streambank of Left P C X X X X X X X X Lawn, T Lawn,	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil int, Structures, Gabioni ut to 50 fee t: Trees Bushes, Shrubs all grasses, ferns maintained landscape Boulders/Rocks Gravel/Sand	C" if common stream): Right PC XXX XX XX XX	Shelvin Change Destruc X X Presen Wrackii X X Vegeta Sedime Leaf litt Scour X X Deposii Multiple X Bed an X Water s	line impressed on the g es in the character of stition of terrestrial vege ce of litter and debrising the sorting er disturbed or washed to observed flow events dibanks	termine OHWM e bank soil etation nt, or absent
15. In the vicinity of the stream, Che Left P C Natural Stream Ban X X Garbage/ji Foa Mud, silt, or s Garba Yard waste or Livestock in	amside plant cover deg ks collapsed/eroded ink adjacent to the stre m or sheen on bank and in or entering the s ige/junk in the stream bank (clippings, leave or with unrestricted ac	Right	DELINE TNW TNWW X RPW RPW RPWW 18. Observed Fauna (max X Invertebrates X Birds Mammals Reptile/Amph Fish 19. Addiitonal Comments	D ake note of wildlife deterent List ———————————————————————————————————	
	ely discharging pipes Other pipes nes entering stream		changes to trees and	d shrubs as it moves	us vegetation primarily which northeast and then back g o culvert at Higgins Rd. Last Revised: 08/19

Stream Characterization	Date: 7/15/2019	Time: AM Site:	ORD	County:	Cook
Field ID: Stream (itch)	Stream Name:	Ditch	11	Investigators:	BJH, KAS
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo		4. Stream habitats present: Pool(s) Riffles(s) 5. Stream Velocity: fast moderate 6. Nature of the particles in the s	RUN(S) N/A Slow X N/A Stream bottom:	9. Water Appearance clear milky foamy turbid light be dark be orange greeni other:	sewage chlorine fishy rotten eggs rown organic other: leen x none e none sish X
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	1 to 8ft	silt/clay/mud sand gravel cobbles (2 - 10" diam.) boulders (> 10" diam.)	X	11. Presence of log stream:	s or large woody debris in Occasional Plentiful
left 1-5 feet righ e) Approximate depth of pool(s):		bedrock 7. Presence of naturally occin stream: None X Occasiona	Unknown Plentiful		ry that best describes the etation shades the stream: X 50% 100% 75% other%
Plant Species Adjacent to stream (scient sees: Salix interior, Acer negure cathartica, Fraxinus pennsylva	ındo, Rhamnus	Facing upstream, does this str for 50 feet on the: left sideno_ What is the % cover of trees per	right side <u>no</u>		otion that best fits the stream el (facing upstream):
Understory: Typha angustifolia, Dip. Nepeta cataria,	acus laciniatus,	left side% Facing upstream, does this strea for 50 feet on the: left sideno What is the % cover of shrubs p	right side% m have <u>shrub</u> cover right side <u>no</u>	Left X Si Gra b) Shape of the cha Narrow, Deep	Wide, Deep
T Lawn, X Paveme b) From the top of the streambank o Left P C X X X X T Lawn, T Lawn,	Trees Bushes, Shrubs all grasses, ferns maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil nt, Structures, Gabions	Right PC XXX XX XX XX XX	Check "P" if observed; Clear Under Scheller Und Scheller Under Scheller Under Scheller Under Scheller Under Sch	line impressed on the g es in the character of station of terrestrial vege ce of litter and debrising tion matted down; berent sorting er disturbed or washed toon eleberted banks	termine OHWM e bank soil etation nt, or absent
15. In the vicinity of the stream, Che Left P C Natural Strea Bani X Garbage/ji Foal Mud, silt, or s X Garba	Bare Soil vement, Structures ck "P" if present, "C" if mside plant cover degrees collapsed/eroded ink adjacent to the strem or sheen on bank and in or entering the sege/junk in the stream bank (clippings, leave or with unrestricted according the sege of the stream bank (clippings, leave or with unrestricted according the sege of the stream bank (clippings, leave or with unrestricted according the stream bank (clippings, leave or with unrestricted according to the stream bank (clippings, leave)	Right P C aded	DELINE TNW TNWW X RPW RPWW	D ake note of wildlife deterent List red-wing black	NRPW NRPWW ISOLATE UPLAND TNWRPW s such as bird wires)
Activo	ely discharging pipes Other pipes nes entering stream			_	on changed from being rbs/bare ground. Last Revised: 08/19

Stream Characterization	Date: 8/29/2019	Time: 3:00pm	Site:	ORD		County:	Cook
Field ID: Stream Oitch	Stream Name:		Ditch 1	2		Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain) X Rain (steady rain) X Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water floor N/A N/A N/A N/A N/A N/A N/A	6"	3. Circle flow regime 4. Stream habitats p Pool(s) Riffles(s) 5. Stream Velocity: fast 6. Nature of the par	moderate Tricles in the str	RMITTENT Run(s) N/A x slow	N/A	9. Water Appearan X clear milky foamy turbid light b dark b oily sl orang green other:	sewage chlorine fishy rotten eggs orown orown orown heen X none le none
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (characteristics)	30-35 ft	silt/clay/mud sand gravel cobbles (2 - 10" diar boulders (> 10" dian bedrock		3	X	stream:	gs or large woody debris in Occasional Plentiful
left 10 ft righ e) Approximate depth of pool(s): X N/A 2. Plant Species Adjacent to stream (science)			Occasional	x Ple	nknown entiful	extent to which veg 0% 25%	ory that best describes the etation shades the stream: X 50% 100% 75% 100% other%
Trees: Understory:	a li a via	left side What is the % cover left side Facing upstream, do	r of <u>trees</u> per s	ide of the strear	0_%	bank and the chann a) Stream bank: Left	el (facing upstream): Right Vertical/undercut
Typha angustifolia, Lythrum s Alisma subcordatum	alicana,	for 50 feet on the: left side What is the % cover	<u>no</u> r of <u>shrubs</u> pe	right side n	no_ eam?		p Wide, Deep
X X Lawn, X Boul Paveme b) From the top of the streambank o Left P C T X X Lawn,	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil unt, Structures, Gabions ut to 50 fee t: Trees Bushes, Shrubs all grasses, forbs maintained landscape Boulders/Rocks Gravel/Sand	tream): F P X X	Right C C X	Check "P" if old P	observed; Ch U Natural Shelving Change Destruct Presenct Wrackin Vegetat Sedimen Leaf litte Scour Depositi Multiple X Bed and Water si X Change	Mark Determination neck "U" if used to de line impressed on the g s in the character of tion of terrestrial veg the of litter and debris g ion matted down; be not sorting er disturbed or washe tion observed flow event d banks taining in plant community	etermine OHWM e bank soil etation nt, or absent
15. In the vicinity of the stream, Che Left P C Natural Strea Bani Garbage/ju Foai Mud, silt, or s Garba	Bare Soil vement, Structures ck "P" if present, "C" if of the street in the street in the street in or sheen on bank and in or entering the street in the st	aded P	Right C	X Inv Bir Ma	DELINE TNW TNWW RPW RPWWI of Fauna (ma vertebrates rds ammals eptile/Amphi	D ke note of wildlife deteren List crickets	NRPW NRPWW ISOLATE UPLAND TNWRPW Its such as bird wires)
Livestock in Active	bank (clippings, leaves or with unrestricted acc ely discharging pipes Other pipes nes entering stream			19. Additional C	iprap around	culvert entrances ar	nd exits; multiple side culverts

Stream Characterization	Date: 7/19/201	9 Time:	Site:	ORD TAP	County:	Cook
Field ID: Stream Oitch	Stream Name:		Ditch 13 - se	ection 1	Investigators:	KAS BJH
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in	Overcast Clear/Sunny	Circle flow reg X Pool(s) Riffles(s S. Stream Velocity	ats present:	Run(s)	9. Water Appearan X clear milky foamy turbid	sewage chlorine fishy rotten eggs
N/A b) Approximate width of water flo	up to 6"	fast	moderate e particles in the st	X slow N/A ream bottom: Little Some Most		brown other: heen X none ge none
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	2 - 6 ft	silt/clay/mud sand gravel cobbles (2 - 10" boulders (> 10"	diam.)	X X	11. Presence of log	gs or large woody debris in Occasional Plentiful
left 2 ft right e) Approximate depth of pool(s):	2 ft	bedrock	ce of naturally occi	urring organic material Unknown Plentiful		ory that best describes the etation shades the stream: 50% 100% X 75% other - %
Plant Species Adjacent to stream (scie Trees:	ntific name):	for 50 feet on the	no no	right side no side of the stream?		ption that best fits the stream nel (facing upstream):
Understory: Phragmites austrailis, Lythrum Alisma subcordatum, Sagittari Schoenoplectus tabernaemon Juncus dudleyii, J. nodosus, Scirpus cyperinus, Polygonum	a cuneata, tani, RCG	left side Facing upstrean for 50 feet on the	m, does this streame: no	right side% In have shrub cover right sideno er side of the stream?	Left S X Gr b) Shape of the ch	p Wide, Deep
Typha angustifolia 14. Describe the streamside cover. a) Along the water's edge and stream Left P C X X X Lawn, Boult Paveme b) From the top of the streambank of Left P C X X X Lawn, Lawn, Boult Lawn,	Check "P" if present, in bank only (facing up Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil int, Structures, Gabion at to 50 fee t: Trees Bushes, Shrubs all grasses, forbs maintained landscape Boulders/Rocks Gravel/Sand	ostream):	Right P C X X X Right P C X X X	Shelv Chan Destr Prese Wrac Vege Sedir Leaf I Scoul Depo Multip Bed a Wate X X Chan	X Narrow, Shaler Mark Determination Check "U" if used to deal line impressed on the inguiting ges in the character of uction of terrestrial vegence of litter and debrisking item to sorting item of the interval of the interval in	wide, Shallow n etermine OHWM le bank soil letation int, or absent led away ts RPWNN
15. In the vicinity of the stream, Che Left P C Natural Strea Bank Garbage/ju	Bare Soil vement, Structures ck "P" if present, "C" if mside plant cover decks collapsed/eroded ink adjacent to the strem or sheen on bank	raded	Right P C	TNW TNW RPW X RPW	WD make note of wildlife deteren List	NRPW NRPWW ISOLATE UPLAND TNWRPW Its such as bird wires)
Garba Yard waste on Livestock in Active	and in or entering the ge/junk in the stream bank (clippings, leave or with unrestricted acely discharging pipes Other pipes nes entering stream	es, etc.)	X	ditch at multiple lo		

Stream Characterization	Date: 7/16/2019	Time: AM	Site:	ORD	County:	Cook
Field ID: stream/pitch	Stream Name:		Ditch 13 - se	ection 2	Investigators:	BJH, KAS
Weather in the past 24 hours: Storm (heavy rain)	up to 8"	3. Circle flow regin 4. Stream habitats Pool(s) X Riffles(s) 5. Stream Velocity fast 6. Nature of the pool	present: X	RUN(s) N/A X slow N/A ream bottom: Little Some Most	X clear milky foam turbic light	sewage chlorine fishy d rotten eggs brown brown brown sheen ge none nish
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (chains)	60 to 80ft	silt/clay/mud sand gravel cobbles (2 - 10" di boulders (> 10" dia	am.)	X X X X	11. Presence of lo stream: X None	ogs or large woody debris in Occasional Plentiful
left 20 ft righ e) Approximate depth of pool(s): N/A 2. Plant Species Adjacent to stream (science)	up to 12"	in stream: None 8. Facing upstrear	Coccasional m, does this stre	urring organic material Unknown Plentiful am have tree cover	extent to which veg X 0% 25%	ory that best describes the getation shades the stream: 50% 100% 75% other%
Trees: Understory: Dipsacus laciniatus,		left side	no_ er of <u>trees</u> per s %	right side no side of the stream? right side % have shrub cover	bank and the chan a) Stream bank: Left X	vertical/undercut Steeply sloping (>30°) Gradual/No slope (<30°)
14. Describe the streamside cover. a) Along the water's edge and stream to the stream		C" if common		r side of the stream? Observer initials: KA: 16. Ordinary High Wat	er Mark Determinatio	ep Wide, Deep Wide, Shallow X
T Lawn, X X Boul Paveme b) From the top of the streambank o Left P C T Lawn,	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil int, Structures, Gabions ut to 50 fee t: Trees Bushes, Shrubs all grasses, forbs maintained landscape Boulders/Rocks	F 2	Right C X X Right C C X X X	Shelver Character Characte	ral line impressed on the ring ges in the character of uction of terrestrial vegence of litter and debrisking tation matted down; beginnent sorting litter disturbed or wash	ne bank f soil getation s ent, or absent ned away
15. In the vicinity of the stream, Che Left P C	Gravel/Sand Bare Soil vement, Structures ck "P" if present, "C" if o	common:	Right PCXXX	TNW TNW X RPW RPW	W	RPWNN NRPW NRPWW ISOLATE UPLAND TNWRPW nts such as bird wires)
Bani Garbage/ju Foai Mud, silt, or s Garba Yard waste or	ks collapsed/eroded ink adjacent to the stream or sheen on bank and in or entering the st ige/junk in the stream bank (clippings, leaves	am ream , etc.)		Invertebrate Birds Mammals Reptile/Amp	phians	
Activo	or with unrestricted acc ely discharging pipes Other pipes nes entering stream	eess			rport via large culverts Creek. Stream banks a	includes a channelized and cobble that pass under RR tracks and are sparsely vegetated and ees near RR.

Stream Characterization	Date: 9/23/2019	Time: 8:30 AM Site	e: ORD	County:	Cook
Field ID: Stream Ditch	Stream Name:		Ditch 14	Investigators:	CBM, BJH
Weather in the past 24 hours: X Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo	4-6"	3. Circle flow regime: 4. Stream habitats presen Pool(s) Riffles(s) 5. Stream Velocity: fast X mod 6. Nature of the particles	Run(s) X N/A derate slow N/A	X clear milky foamy turbid light brow dark brov oily shee orange	sewage chlorine fishy rotten eggs organic wn other: n X none
N/A c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha		silt/clay/mud sand gravel cobbles (2 - 10" diam.) boulders (> 10" diam.) bedrock	None Little Some Most X X X	stream:	or large woody debris in casional Plentiful
left 15 ft righ e) Approximate depth of pool(s):		in stream: X None Occ	ally occurring organic material Unknown asional Plentiful	12. Pick the category t extent to which vegetat 0% 25% X	tion shades the stream:
Plant Species Adjacent to stream (scient rees: Rhamnus cathatica, Sa Populus deltoides	,	for 50 feet on the: left side <u>yes</u> What is the % cover of <u>tre</u>	ees per side of the stream?	bank and the channel (a) Stream bank:	
Understory: Solidago sempervirens, Dipsa Phragmites australis, Typha a		Facing upstream, does thi for 50 feet on the: left side <u>yes</u> What is the % cover of <u>sh</u>	rubs per side of the stream?	X Stee Gradu b) Shape of the chann-Narrow, Deep	Wide, Deep
X X Lawn, X Boul Paveme b) From the top of the streambank o Left P C T X Lawr	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks (Rip Rap Gravel/Sand Bare Soil ent, Structures, Gabions	Right PC XXX XX X	P U Natura Shelvi Chang Destra Prese X Wrack X Veget Sedim Leaf Ii Scour Depos Multip X X Bed a Water X X Chang	Check "U" if used to determal line impressed on the barning uses in the character of soil action of terrestrial vegetal noe of litter and debristing ation matted down; bent, dent sorting ther disturbed or washed a	mine OHWM ank tion or absent
15. In the vicinity of the stream, Che Left P C Natural Strea Bani Garbage/ju Foai Mud, silt, or s X Garba	wement, Structures ck "P" if present, "C" if commission plant cover degrates collapsed/eroded in the adjacent to the stream or sheen on bank and in or entering the stige/junk in the stream	Right P C aded am	TNW TNWW X RPW RPW	V VD List s dragonflies, butter	NRPWW ISOLATE UPLAND TNWRPW uch as bird wires)
Livestock in Active	bank (clippings, leaves or with unrestricted acc ely discharging pipes Other pipes nes entering stream		19. Additional Comments heavy rain night be 24" pipe drains into Mannheim Rd to th	fore; flowing water ditch; large box culvert a	t north end. Drains under

Stream C	haracterization	Date: 9/23/2019	Time: 8:	55am Site:	0	RD	County:	Cook
Field ID: S	Stream/oitch	Stream Name:		Dit	ch 15		Investigators:	CBM, BJH
X Storm Rain (Show 1. a) Appro	the past 24 hours: (heavy rain) (steady rain) ers (intermittent rain) eximate depth of water in N/A N/A	10"	Pool Riffle 5. Stream Ve	abitats present: (s) es(s) elocity: modera		w X N/A		sewage chlorine fishy d rotten eggs brown organic brown other: heen X none ge none nish
(from top of	eximate width of stream: top of bank to	40 ft	silt/clay/mud sand gravel cobbles (2 - 1 boulders (> 1	10" diam.)		X	11. Presence of loo stream:	gs or large woody debris in Occasional Plentiful
Plant Spec	10 ft right		in str None 8. Facing up for 50 feet or	stream, does this	onal Stream have	Unknown Plentiful tree cover	extent to which veg X 0% 25% 13. Pick the descri	ory that best describes the letation shades the stream: 50% 100% 75% other%
	a angustifolia, Schoenopi Imites ausralis, Andropog		left s Facing upstro for 50 feet or left s	% cover of trees of t	right side ream have <u>sh</u> right side	stream? 0 % rub cover no ne stream?	a) Stream bank: Left X	p Wide, Deep
	e the streamside cover. water's edge and stream	•		Right P C	16. Ordi Check "	nary High Water	X Narrow, Share Mark Determination heck "U" if used to de	n
X X X X	Ta Lawn, i Bould	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil nt, Structures, Gabions ut to 50 fee t:		X X X X		Natural Shelvir Change Destruc Presen Wracki Vegeta Sedime	es in the character of ction of terrestrial veg ce of litter and debris	soil getation s ent, or absent
Left P C	Ta Lawn, i	Trees Bushes, Shrubs all grasses, forbs maintained landscape Boulders/Rocks		Right P C		Scour Deposi Multiple Bed an Water s	tion e observed flow even d banks	ts
X X	Pav	Gravel/Sand Bare Soil vement, Structures ck "P" if present, "C" if	common:	ХХ	17. Wate	rs Type DELINI TNW TNWW RPW		RPWNN NRPW NRPWW ISOLATE UPLAND
Left P C	Natural Strea Bank Garbage/ju Foar Mud, silt, or sa Garba Yard waste on Livestock in	mside plant cover degress collapsed/eroded ink adjacent to the stream or sheen on bank and in or entering the sige/junk in the stream bank (clippings, leaves or with unrestricted accept discharging pipes	aded am ream s, etc.)	Right P C		Invertebrates Birds Mammals Reptile/Amph Fish Invertebrates	ake note of wildlife deteren List butterflic	X TNWRPW Its such as bird wires)
		Other pipes nes entering stream		X		nks mown period		Last Revised: 00/25

Stream Characterization	Date: 9/25/2019 1	Fime: 9:45am	Site:	ORD	County:	Cook
Field ID: Stream Ditch	Stream Name:		Ditch 16		Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in the part of water in the past 24 hours: N/A	Overcast Clear/Sunny 4 in stream: 5 3" to 1ft	B. Circle flow regime J. Stream habitats p Pool(s) Riffles(s) S. Stream Velocity: fast D. Nature of the par	moderate Ruitticles in the stream	n(s)	9. Water Appearan X clear milky foamy turbid light b dark b oily st orang green other:	sewage chlorine fishy rotten eggs orown organic orown heen X none ge none
c) Approximate width of stream (from top of bank to top of bank) d) Approximate height of banks (ch	40 ft g	silt/clay/mud sand gravel cobbles (2 - 10" dian coulders (> 10" dian		X	stream:	gs or large woody debris in Occasional Plentiful
left 10 ft rig e) Approximate depth of pool(s X N/A 2. Plant Species Adjacent to stream (so	ht 10 ft 7	Presence of in stream: None B. Facing upstream, or 50 feet on the: left side		Unknown X Plentiful	extent to which veguons 0% 25% 13. Pick the description	ory that best describes the etation shades the stream: 50% X 100% 75% other - % ption that best fits the stream nel (facing upstream):
Understory: Phragmities australis, Solida	go sempervirens F fo	What is the % cover left side Facing upstream, do or 50 feet on the: left side What is the % cover	0 % right pes this stream hat no right of shrubs per side	nt side <u>0</u> % ve <u>shrub</u> cover nt side <u>no</u>		Wide, Deep
Lawn Bot	•	ream):	Right Cl	Shelvin Change Destruc Presen Wracki Vegeta	neck "U" if used to de line impressed on the g es in the character of ction of terrestrial veg ce of litter and debris	etermine OHWM e bank soil etation
b) From the top of the streambank Left P C X X	Trees Bushes, Shrubs Tall grasses, forbs , maintained landscape Boulders/Rocks Gravel/Sand	F P	Right C X	Leaf litt Scour Deposi Multiple Bed an Water s X X Change	er disturbed or washer tion c observed flow event d banks staining e in plant community	ts RPWNN
15. <u>In the vicinity of the stream</u> , Ch	Bare Soil avement, Structures leck "P" if present, "C" if co		Right Technology	DELINE TNW TNWW RPW RPW	D	NRPW NRPWW ISOLATE UPLAND TNWRPW
Bai Garbage/ Foi Mud, silt, or X Garb	eamside plant cover degradents collapsed/eroded junk adjacent to the strean am or sheen on bank sand in or entering the streage/junk in the stream on bank (clippings, leaves, on the context of the context o	ded	C 18.	Invertebrates Birds Mammals Reptile/Amph	ake note of wildlife deterent List	IS SUCIT AS DITU WITES)
Livestock i X Acti	or with unrestricted access wely discharging pipes Other pipes ches entering stream			Additional Comments Phragmites filled; significant antered by:	de ditch for Ditch 13W	V

Stream Characterization	Date: 9/25/2019	Time: 8:30am Site	e: ORD	County:	Cook
Field ID: Stream Ditch	Stream Name:		Ditch 17	Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo	1 ft	3. Circle flow regime: 4. Stream habitats present Pool(s) Riffles(s) 5. Stream Velocity: fastmod 6. Nature of the particles in the p	Run(s) X N/A erate slow X N/A	9. Water Appearanc clear milky foamy turbid light br X dark br orange greenis	sewage chlorine fishy rotten eggs own organic rown een X none
N/A c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	20 ft	silt/clay/mud sand gravel cobbles (2 - 10" diam.) boulders (> 10" diam.) bedrock	None Little Some Most	stream: X None C	s or large woody debris in Occasional Plentiful
e) Approximate depth of pool(s): X N/A 2. Plant Species Adjacent to stream (scient contents): Trees:	t	in stream:	ally occurring organic material Unknown asional X Plentiful this stream have tree cover right side no	extent to which vege 0% 25%	y that best describes the tation shades the stream: 50% X 100% 75% other% tion that best fits the stream of (facing upstream):
Understory: Phragmites australis, Solidage Dipsacus laciniatus	o sempervirens,	left side 0 Facing upstream, does this for 50 feet on the: left side no	rubs per side of the stream?	St. Gra b) Shape of the char	Wide, Deep
X X Lawn, Boul Paveme b) From the top of the streambank o Left P C X X T Lawn, Boul	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil ent, Structures, Gabions	Right PC XXX	Shelvii Chang Destru Preser Wrack Vegete Sedim Leaf lit Scour Depos Multipl Bed ar Water	heck "U" if used to detent of the impressed on the engues in the character of sction of terrestrial vegence of litter and debrising tition matted down; benent sorting ter disturbed or washed	ermine OHWM bank oil tation t, or absent d away
15. In the vicinity of the stream, Che Left P C Natural Strea Bani X Garbage/ji Foal Mud, silt, or s Garba Yard waste or Livestock in	Bare Soil vement, Structures ck "P" if present, "C" if of a smaller plant cover degrees collapsed/eroded unk adjacent to the stream or sheen on bank and in or entering the stige/junk in the stream is bank (clippings, leaves or with unrestricted accely discharging pipes	Right	X DELIN TNW TNWW RPW RPW RPW I8. Observed Fauna (m Invertebrates Birds Mammals Reptile/Ampt Fish 19. Additional Comments Return road and sto	//D ake note of wildlife deterents List alians bockpile; Phragmites fille	NRPW NRPWW ISOLATE UPLAND TNWRPW such as bird wires)
Ditc	Other pipes nes entering stream		culverts present; 30 drain into feature	" at south end flows in	to ditch, 2 12" culverts

Stream Characterization	Date: 9/25/2019	Time: 8:00am Site:	ORD	County:	Cook
Field ID: Stream Ditch	Stream Name:	Ditch	18	Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo	1-4 ft	4. Stream habitats present: Pool(s) X Riffles(s) 5. Stream Velocity: fast moderate 6. Nature of the particles in the s	RMITTENT RUN(S) N/A Slow N/A Tream bottom: Little Some Most	9. Water Appearanc X clear milky foamy turbid light br dark br orlange greenis other:	sewage chlorine fishy rotten eggs own own own own een X none
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	20-25 ft	silt/clay/mud sand gravel cobbles (2 - 10" diam.) boulders (> 10" diam.)	X X X	stream:	s or large woody debris in
left 10 ft righ e) Approximate depth of pool(s): X N/A 2. Plant Species Adjacent to stream (science)		bedrock 7. Presence of naturally occ in stream: None X Occasional 8. Facing upstream, does this stre	Unknown Plentiful		y that best describes the tation shades the stream: 50% 100% X 75% 0ther%
Trees: Populus deltoides, Ulm Rhamnus cathartica	,	for 50 feet on the: left side yes What is the % cover of trees per	right side yes	13. Pick the descript bank and the channea) Stream bank:	tion that best fits the stream el (facing upstream):
Understory: Symphyotrichum Solidago sempervires, Vitis rip Phalaris arundinacea, Cirsium	paria,	left side 30 % Facing upstream, does this streat for 50 feet on the: left side yes What is the % cover of shrubs persons and the stream of t	right side 10 % In have shrub cover right side yes er side of the stream?	Left X St Gra b) Shape of the chal	Wide, Deep
T Lawn, Boul Paveme b) From the top of the streambank o Left P C X X T Lawn,	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil ent, Structures, Gabions	Right PC X X X X X	Shelvin Change Destruc X Presen X X Wrackii X Vegeta Sedime Leaf litt X Scour Deposii Multiple X X Bed an	line impressed on the g es in the character of s tition of terrestrial vege ce of litter and debris ng tion matted down; ben ent sorting er disturbed or washed tion e observed flow events d banks	ermine OHWM bank coil ttation t, or absent d away
15. In the vicinity of the stream, Che Left P C Natural Strea X Bani X Garbage/ji Foal Mud, silt, or s Garba Yard waste on	Bare Soil vement, Structures ck "P" if present, "C" if of the street cks collapsed/eroded unk adjacent to the street collapsed	Right P C aded am tream s, etc.)	DELINE TNW TNWW X RPW RPWW 18. Observed Fauna (max X Invertebrates Birds Mammals Reptile/Amph Fish	D ake note of wildlife deterents List butterflies	NRPW NRPWW ISOLATE UPLAND TNWRPW
Activo	or with unrestricted accely discharging pipes Other pipes nes entering stream	zess X	· ·	to ditch 13 on west si d via large box culvert	

Stream Ch	naracterization	Date: 9/18/2019	Time: 10:15	5 AM Site:	ORD		County:	Cook
Field ID: S	Stream Oitch	Stream Name:		Ditch 1	9		Investigators:	CBM, BJH
Storm Rain (: Showe 1. a) Appro.	ne past 24 hours: (heavy rain) steady rain) X ers (intermittent rain) ximate depth of water in simate width of water flow		Circle flow re A. Stream habit Pool(s) Riffles(S. Stream Velo fast Nature of th	tats present: (s) X city: moderate re particles in the str	RUN(S) N/A slow	X N/A	9. Water Appearan	sewage chlorine y fishy rotten eggs orown brown brown heen x none ge none nish X
(from top of	ximate width of stream: top of bank to bank) imate height of banks (chan	12 ft	silt/clay/mud sand gravel cobbles (2 - 10 boulders (> 10"		X	X	stream:	gs or large woody debris in Occasional X Plentiful
, [10 ft right right right ximate depth of pool(s): X N/A ies Adjacent to stream (scier	10 ft	in strea	nce of naturally occu am: Occasional	Ur X Pl	nknown lentiful		ory that best describes the etation shades the stream: 50% X 100% 75% other%
Trees:	Acer negundo, Robinia p	·	for 50 feet on the	he:	right sidey	/es_	·	ption that best fits the stream nel (facing upstream):
Understory:	Vitis riparia		left side Facing upstrea for 50 feet on the left side What is the % o	e 100 % Im, does this stream he: e yes cover of shrubs pe	right side 1 n have shrub or right side y r side of the stre	00_% over /es_ eam?	Left X S Gr b) Shape of the cha X Narrow, Deep	p Wide, Deep
a) Along the Left P C X X X X X X X X X X X X X X X X X X X	Ta Lawn, m Bould Pavemen top of the streambank ou B Ta Lawn, m B	Trees ushes, Shrubs Il grasses, forbs naintained landscape ers/Rocks/Rip Rap Gravel/Sand Bare Soil t, Structures, Gabions	stream):	Right P C X X X X X X X X X X X X X X	Check "P" if o	High Water I observed; Chu Natural I Shelving Changes Destruct Presenc Wrackin Vegetati Sedimer Leaf litte Scour Depositi Multiple X Bed and Water st Change	in the character of ion of terrestrial veg e of litter and debris g on matted down; beint sorting or disturbed or washed on observed flow event banks aining in plant community	n etermine OHWM se bank soil getation ent, or absent ed away ts RPWNN
Left	Pave	ement, Structures	common:	X X X	X	DELINE, TNW TNWW RPW RPWWE)	NRPW NRPWW ISOLATE UPLAND TNWRPW
X X X X	Banks Garbage/jur Foam Mud, silt, or sa Garbag	nside plant cover degres collapsed/eroded ik adjacent to the streat or sheen on bank nd in or entering the site/junk in the stream bank (clippings, leaves	am ream	P C X X X X	X Inv	vertebrates irds ammals eptile/Amphia	ke note of wildlife deteren List mosquite	·
	Livestock in o Activel	or with unrestricted acc y discharging pipes Other pipes es entering stream			19. Additional (Short, de	eep ditch cut	into hillside entering	g Willow Creek.

Stream Ch	aracterization	Date: 9/17/2019	Time: 1:20	PM Site:	ORD	County:	Cook
Field ID: S	treamOitch	Stream Name:		Ditch 2)	Investigators:	CBM, BJH
Storm (Rain (s Showe 1. a) Approx	e past 24 hours: (heavy rain) steady rain) X rs (intermittent rain) ximate depth of water in X N/A climate width of water flo		Circle flow re Pool(s) Riffles(s) Stream Veloc fast Nature of the	ats present: X X	MITTENT Run(s) N/A slow X N/A eam bottom: Little Some Most	clear milky foam turbio light	sewage chlorine y d fishy brown brown brown cheen x ge none nish X
(from to	kimate width of stream: op of bank to pank) mate height of banks (cha	6 ft	silt/clay/mud sand gravel cobbles (2 - 10" boulders (> 10"		X	stream:	gs or large woody debris in Occasional Plentiful
2. Plant Specie Trees:	righ righ rimate depth of pool(s): X N/A es Adjacent to stream (scie Salix nigra, Populus del	,	in streat	m: Occasional eam, does this strea	Unknown X Plentiful m have tree cover	extent to which veg X 0% 25% 13. Pick the descri	ory that best describes the stream: 50%
Understory: Echino	nus cathartica chloa crus-galli, Persica cum officinale, turf gras		left side Facing upstrear for 50 feet on th left side	m, does this stream ne: no	right side0_%		p Wide, Deep
a) Along the v Left P C X X X X X	Taun, Lawn, Paveme op of the streambank of Taun, Lawn,	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil nt, Structures, Gabions	C" if common stream):	Right PCXXX XXX Right PCXXX Right PCXXX	16. Ordinary High Wa Check "P" if observed P U Natu She Cha Des Pres Wra X X Veg Sed Leat Sco Dep Mult X X Bed Wat Cha 17. Waters Type	ter Mark Determination Check "U" if used to desiral line impressed on the ving anges in the character of truction of terrestrial vegence of litter and debriscking estation matted down; between the sorting litter disturbed or washur position in the properties of th	etermine OHWM ne bank f soil getation s ent, or absent eed away
15. In the vici Left P C	Natural Stream, Che Natural Strea Bank Garbage/ju Foar Mud, silt, or s: Garba Yard waste on Livestock in Active	mside plant cover degrass collapsed/eroded ink adjacent to the strem or sheen on bank and in or entering the sige/junk in the stream bank (clippings, leave or with unrestricted accept discharging pipes Other pipes	raded am tream s, etc.)	Right P C	TNV RPV RPV 18. Observed Fauna Invertebrat Birds Mammals Reptile/Am Fish 19. Additional Commer	/W / / ///////////////////////////////	ISOLATE UPLAND X TNWRPW
\vdash	Ditch	nes entering stream	L		Datashoot antored by:		Last Pavisad: 00/25

Stream Characterization	Date: 9/25/2019	Time: 3:30pm	Site:	ORD	County:	DuPage
Field ID: Stream Ditch	Stream Name:		Ditch 21		Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo	Overcast Clear/Sunny stream: 1 inch	3. Circle flow regime 4. Stream habitats p Pool(s) Riffles(s) 5. Stream Velocity: fast 6. Nature of the pare	oresent: Rui X N/A moderate rticles in the stream	n(s)	9. Water Appearan	sewage chlorine fishy rotten eggs organic orown crown heen x none ge none
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	25 ft	silt/clay/mud sand gravel cobbles (2 - 10" dial boulders (> 10" diar		X	stream:	gs or large woody debris in Occasional Plentiful
left 3 ft righ e) Approximate depth of pool(s): X N/A 2. Plant Species Adjacent to stream (sci	t 3 ft	7. Presence of in stream: None 8. Facing upstream, for 50 feet on the: left side	,	Unknown X Plentiful	extent to which vegation 0% X 25% 13. Pick the description 13.	ory that best describes the etation shades the stream: 50% 75% other - % ption that best fits the stream let (facing upstream):
Understory: Solidago sempervirens Typha angustifolia		What is the % cover left side Facing upstream, do for 50 feet on the: left side What is the % cover	10 % right oes this stream have no right r of shrubs per sic	nt side 0 % ve shrub cover nt side no		Wide, Deep
X X Lawn, Boul Paveme b) From the top of the streambank of Left P C T Lawn, X X 15. In the vicinity of the stream, Checkeft P C Natural Stream Ban Garbage/ju	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Pocks/Rip Rap Gravel/Jand Bare Soil ent, Structures, Gabions ut to 50 fee t: Trees Bushes, Shrubs all grasses, forbs maintained landscape Boulders/Rocks Gravel/Sand Bare Soil vement, fructures	ommon:	Right CI	Shelvin Change Destruc Presen Wrackii Vegeta Sedime Leaf litt Scour Deposii Multiple Bed an Water s X X Change Waters Type X TNW TNWW RPW RPWW	neck "U" if used to de line impressed on the g is in the character of tion of terrestrial veg be of litter and debris g ition matted down; bei nt sorting er disturbed or washe ition observed flow event d banks taining in plant community	etermine OHWM e bank soil getation nt, or absent ed away ts RPWNN NRPW NRPW ISOLATE UPLAND TNWRPW Is such as bird wires)
Mud, silt, or s X X Garba Yard waste or Livestock in Activ	and in or entering the str ge/junk in the stream bank (clippings, leaves, or with unrestricted acce ely discharging pipes Other pipes hes entering stream	etc.)	19.	Reptile/Amph Fish Additional Comments located on York Rd		Leat Revised: 00/25

Stream Characterization	Date: 9/24/2019	Time: 9:45am	Site: O	RD	County:	Cook
Field ID: Stream Oitch	Stream Name:		Ditch 22		Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain)	1"		NTERMITTENT	w X N/A	9. Water Appearan clear milky foamy turbid light b dark t X oily sl orang green other:	sewage chlorine fishy rotten eggs organic brown brown heen X none ge none
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (chains)	25 ft	silt/clay/mud sand gravel cobbles (2 - 10" diam. boulders (> 10" diam. bedrock	.)	X	stream:	gs or large woody debris in Occasional Plentiful
left 3 ft righ e) Approximate depth of pool(s): X N/A 2. Plant Species Adjacent to stream (science)		7. Presence of n in stream: None 8. Facing upstream, d	Occasional	Unknown (Plentiful	extent to which veg X 0% 25%	ory that best describes the etation shades the stream: 50% 100% 75% other%
Trees: Gleditsia triacanthos		for 50 feet on the: left side	no right side		bank and the chann	ption that best fits the stream nel (facing upstream):
Understory: Eloeocharis obtusa, Cyperus Typha angustifolia, Echinochloa crus-galli	esculentus,	left side Facing upstream, doe for 50 feet on the: left side	of trees per side of the of th	0 % rub cover		
X X Lawn, Boul Paveme b) From the top of the streambank o Left P C X T Lawn,	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil ent, Structures, Gabions ut to 50 fee t: Trees Bushes, Shrubs all grasses, forbs maintained landscape Boulders/Rocks Gravel/Sand Bare Soil	stream): Rig P X		nary High Water P" if observed; C U Natural Shelvin Change Destrue Presen Wracki Vegeta Sedime Leaf litt Scour Deposi Multiple Bed an Water s C X Change	es in the character of ction of terrestrial veg ce of litter and debris ng tion matted down; be ent sorting ter disturbed or washe tion e observed flow event d banks staining e in plant community	etermine OHWM le bank soil letation ent, or absent led away ts RPWNN NRPW
15. In the vicinity of the stream, Che Left P C Natural Strea Bani Garbage/ju Foai Mud, silt, or s Garba	wement, Structures ck "P" if present, "C" if we will be plant cover degrees collapsed/eroded ink adjacent to the streem or sheen on bank and in or entering the sige/junk in the stream bank (clippings, leaves	Rig P aded am tream	ght	TNW TNWW RPW RPWW served Fauna (m Invertebrates Birds Mammals Reptile/Amph Fish	Dake note of wildlife deteren List	NRPWW ISOLATE UPLAND TNWRPW Its such as bird wires)
Livestock in Active	or with unrestricted accept discharging pipes Other pipes nes entering stream		roa	onal Comments idside ditch; drop	inlets drain the featu	Last Revised: 09/25

top of bank) d) Approximate height of banks (channel depth): left 2 ft right 3 ft right	sewage chlorine fishy rotten eggs organic other: none ish
Storm (heavy rain)	sewage chlorine fishy rotten eggs organic other: x none en none ish Plentiful sor large woody debris in Occasional Plentiful ory that best describes the etation shades the stream: 50% 100% 75% 100% other - % other - %
(from top of bank to top of bank to top of bank (bannel depth): Approximate height of banks (channel depth): Ieft 2 ft right 3 ft 7. Presence of naturally occurring organic material in stream: Pick the category extent to which veget in stream: 12. Pick the category extent to which veget 13. Pick the descript 14. Pick the category 15. Pick the descript 15. Pick the desc	Occasional Plentiful Plentiful Pry that best describes the etation shades the stream: 50% 100% 75% other - % Dion that best fits the stream
left 2 ft right 3 ft 7. Presence of naturally occurring organic material in stream: Paper Paper Paper Paper	etation shades the stream: 50% 100% 75% other%
Left	
14. Describe the streamside cover. Check "P" if present, "C" if common a) Along the water's edge and stream bank only (facing upstream): Left P C Trees Bushes, Shrubs Tall grasses, forbs Lawn, maintained landscape Boulders/Rocks/Rip Rap Gravel/Sand Bare Soil X X Perement Structures, Gabions b) From the top of the streambank out to 50 fee t: Left P C Trees Bushes, Shrubs Tall grasses, forbs Lawn, maintained landscape Boulders/Rocks/Rip Rap Gravel/Sand Bare Soil Leaft P C P C Deposition 16. Ordinary High Water Mark Determination Check "P" if observed; Check "U" if used to deter P U Natural line impressed on the Shelving Changes in the character of s Destruction of terrestrial vege Presence of litter and debris Wracking Wegetation matted down; ben' Sediment sorting Leaf litter disturbed or washed Scour P C Deposition Multiple observed flow events	Wide, Deep
Bushes, Shrubs Tall grasses, forbs Lawn, maintained landscape Boulders/Rocks Gravel/Sand Bare Soil X X Pavement, Structures Bed and banks Water staining X X Change in plant community TNW TNWW TNWW Bruchyses Bed and banks Water staining X X X Change in plant community TNW TNWW TNWW TNWW	termine OHWM e bank soil etation nt, or absent ed away ss RPWNN NRPW NRPWW
15. In the vicinity of the stream, Check "P" if present, "C" if common: Left P C Natural Streamside plant cover degraded Banks collapsed/eroded Garbage/junk adjacent to the stream Foam or sheen on bank Mud, silt, or sand in or entering the stream X Garbage/junk in the stream Yard waste on bank (clippings, leaves, etc.) Livestock in or with unrestricted access Actively discharging pipes Other pipes Ditches entering stream TNWW RPW RPW Invertebrate Birds Mammals Reptile/Amphians Fish 19. Additional Comments Ditch continues into construction are	ISOLATE UPLAND TNWRPW ts such as bird wires)

Stream Characterization	Date: 9/25/2019	Time: 5:10pm	Site:	ORD	County:	Cook
Field ID: Stream Ditch	Stream Name:		Ditch 24		Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water i	0-3 inches	3. Circle flow regim 4. Stream habitats Pool(s) Riffles(s) 5. Stream Velocity: fast 6. Nature of the pa	present:	tun(s) I/A slow X N/A	9. Water Appearan X clear milky foamy turbid light b dark b oily sh orang green other:	sewage chlorine fishy rotten eggs orown organic brown other: heen X none ge none
c) Approximate width of stream (from top of bank to top of bank) d) Approximate height of banks (characteristics)	15 ft	silt/clay/mud sand gravel cobbles (2 - 10" dia boulders (> 10" diai	am.)	X	stream:	gs or large woody debris in Occasional Plentiful
e) Approximate depth of pool(s) X N/A 2. Plant Species Adjacent to stream (sc	:	in stream: None 8. Facing upstream	Occasional	ing organic material Unknown X Plentiful n have tree cover	extent to which vege 0% 25%	ory that best describes the etation shades the stream: 50% 100% 75% X other - 5%
Trees: Salix sp.		for 50 feet on the: left side		ght side <u>yes</u>	bank and the chann	ption that best fits the stream nel (facing upstream):
Understory: Phragmites australis, I Solidago sempervirens, Symphyotrichum subulatum	ythrum salicaria,	What is the % cove left side Facing upstream, d for 50 feet on the: left side What is the % cove	0 % ri loes this stream h no ri er of <u>shrubs</u> per s	ght side 5 % have shrub cover ght side no side of the stream?	X Gr b) Shape of the cha	p Wide, Deep
Lawn Bot X Pavem b) From the top of the streambank Left P C X X X	Trees Bushes, Shrubs Fall grasses, forbs, maintained landscape liders/Rocks/Rip Rap Gravel/Sand Bare Soil ent, Structures, Gabions	tream):	Right C X X Right C C X X X X X X X X X X X X X X X X X	Shelvir Chang Destru Preser Wracki Vegeta Sedime Leaf lit Scour Deposi Multiple Bed an	heck "U" if used to de I line impressed on the ig es in the character of ction of terrestrial veg ce of litter and debris ng tion matted down; be ent sorting ter disturbed or washe	etermine OHWM le bank soil letation ent, or absent led away
X X Pa	Bare Soil avement, Structures eck "P" if present, "C" if o		Right	X DELIN TNW TNWW RPW RPWW	,	NRPW NRPWW ISOLATE UPLAND TNWRPW
Ban Garbage/ Foa Mud, silt, or Garb	amside plant cover degra ks collapsed/eroded lunk adjacent to the strea am or sheen on bank sand in or entering the st age/junk in the stream n bank (clippings, leaves	ream	C 1	8. Observed Fauna (m Invertebrates Birds Mammals Reptile/Amph		ts such as bird wires)
X Livestock in Activ	n or with unrestricted acc vely discharging pipes Other pipes ches entering stream			Additional Comments shallow ditch, partly	along road and cuts	through a field further north

Stream Chara	cterization Date	e: <u>9/25/2019</u> Time	: 3:00pm S	ite:	ORD	County:	Cook
Field ID: Stream	m Oitch Stre	am Name:		Ditch 25		Investigators:	CBM, BJH
1. a) Approxima	vy rain) Overous Clear. Ity rain) X Clear. Ite depth of water in stream IN/A Ite width of water flow:	24. Stre 4. Stre 5. Stre	le flow regime: am habitats prese Pool(s) Riffles(s) am Velocity: fast ure of the particle	Ru X N// oderate ss in the stream	n(s) Slow X N n bottom:	X clea milk foar turb light /A dark oily orar gree	sewage chlorine my fishy id rotten eggs t brown organic t brown other: sheen X none mge none enish
(from top o top of bank		silt/clar sand gravel cobble	y/mud s (2 - 10" diam.) rs (> 10" diam.)	None Lit	le Some Most	11. Presence of keep stream: X None	ogs or large woody debris in Occasional Plentiful
left 10 e) Approxima	ft right le depth of pool(s):	5 ft 5 ft 5 ft 7.	Presence of natin stream:	ccasional	g organic material Unknow X Plentiful	extent to which ven	gory that best describes the stream: 50% 100% 75% X other - 10%
Plant Species A Trees:	djacent to stream (scientific nar	for 50		no rigl	nt side <u>yes</u>	bank and the char	ription that best fits the stream nnel (facing upstream):
	s australis, Typha angustifi n glomeratus, Digitaria co maculatum	polia, Facing gnata, for 50	upstream, does t	0 % rigithis stream hand rigits shrubs per sid	nt side <u>5</u> % ve <u>shrub</u> cover nt side <u>no</u> de of the stream?	b) Shape of the c	ep Wide, Deep
a) Along the water Left PC XXX	Bushes Tall gras Lawn, maintai Boulders/Ro Grave Bare Pavement, Stru f the streambank out to 50 Tr Bushes Tall gras Lawn, maintai Boulde	ees i, Shrubs sees, forbs ined landscape pcks/Rip Rap el/Sand e Soil inctures, Gabions ifee t: ees i, Shrubs ses, forbs ined landscape pcks/Rip Rap el/Sand el-Soil inctures, Gabions ifee t: ees i, Shrubs ses, forbs ined landscape is/Rocks el/Sand	Right P X X X Right P	16. CC	P U Ni Si Ci Di Vi Si Si Ci MM Si Waters Type	X Narrow, Shawater Mark Determination and the control of the contr	allow Wide, Shallow on determine OHWM the bank of soil egetation is pent, or absent hed away ints Y RPWNN
X X 15. In the vicinity Left P C		e Soil , Structures if present, "C" if common	n: Right	X 18.	TI TI R	ELINEATE NW NWW PW PWWD na (make note of wildlife deters	NRPW NRPWW ISOLATE UPLAND TNWRPW ents such as bird wires)
X	Banks colla Garbage/junk adja Foam or sh Mud, silt, or sand in o Garbage/junk	plant cover degraded psed/eroded acent to the stream een on bank or entering the stream in the stream clippings, leaves, etc.)	X		Inverteb Birds Mamma Reptile// Fish		
X	Livestock in or with Actively disc Othe	unrestricted access harging pipes r pipes ering stream	X			nd York Rd.; flows south s present under RR; road	

Stream Characterization	Date: 8/30/2019	Time: 11:00 AM S	Site:	ORD	County:	Cook
Field ID: Stream Ditch	Stream Name:		Ditch 26		Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo	0	3. Circle flow regime: 4. Stream habitats pres Pool(s) Riffles(s) 5. Stream Velocity: fastn 6. Nature of the particle	Run(s) X N/A	slow X N/A ottom:	9. Water Appearan clear milky foamy turbid light b dark b oily sh orang green other:	sewage chlorine fishy rotten eggs organic orown crown heen x none ge none hish x
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	75 ft	silt/clay/mud sand gravel cobbles (2 - 10" diam.) boulders (> 10" diam.)		X	stream:	gs or large woody debris in Occasional Plentiful
left 20 ft right e) Approximate depth of pool(s): X N/A 2. Plant Species Adjacent to stream (scient forms): Trees: Populus deltoides, Salix	ŕ	in stream: None X C 8. Facing upstream, do for 50 feet on the:	turally occurring or Occasional es this stream hav yes right si	Unknown Plentiful ve tree cover	extent to which vegently of the street of th	ory that best describes the etation shades the stream: 50% 100% 75% other - % ption that best fits the stream nel (facing upstream):
Understory: Phragmites australis, Lythrum Phalaris arundinacea, Cyperu:		What is the % cover of left side Facing upstream, does for 50 feet on the: left side What is the % cover of 5%	5 % right si this stream have yes right si shrubs per side o	ide <u>5</u> % <u>shrub</u> cover ide <u>yes</u>		Wide, Deep X
Paveme b) From the top of the streambank or Left P C X X Lawn, I	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks (Rip Rap) Gravel/Sand Bare Soil nt, Structures, Gabions ut to 50 fee t: Trees Bushes, Shrubs all grasses, forbs maintained landscape Boulders/Rocks Gravel/Sand Bare Soil vement, Structures	Right P X X X X X X X X X X X X X X X X X X	x Chec	k "P" if observed; Cl P U Natural Shelvin Change Destruct Presen- Wrackii Vegeta Sedime Leaf litt Scour X Deposii Multiple X X Bed an	es in the character of ction of terrestrial veg ce of litter and debris ng tion matted down; being the sorting er disturbed or washed to be observed flow event d banks etaining e in plant community	etermine OHWM e bank soil etation nt, or absent ed away
Left P C Natural Strea Bank Garbage/ju Foar Mud, silt, or sa Garba Yard waste on Livestock in Active	mside plant cover degra as collapsed/eroded ink adjacent to the stream or sheen on bank and in or entering the st ge/junk in the stream bank (clippings, leaves or with unrestricted acc ely discharging pipes Other pipes nes entering stream	Right P P P P P P P P P P P P P P P P P P P	C 18.	RPWW Observed Fauna (max X Invertebrates Birds Mammals Reptile/Amph Fish Iditional Comments	List crickets	X TNWRPW Its such as bird wires)

Stream Characterization	Date: 9/17/2019	Time: 2:30pm	Site:	ORD	County:	Cook
Field ID: Stream Oitch	Stream Name:		Ditch 27		Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water f	0-2 inches	Stream habitats proof(s) Riffles(s) Stream Velocity: fast Nature of the paragraphs.	oresent: The property of the street of th	Run(s) N/A X slow N/A	X clear milky foamy turbid	sewage chlorine fishy fishy orown brown heen x none ge none sish sewage chlorine fishy rotten eggs organic other: none
c) Approximate width of stream (from top of bank to top of bank) d) Approximate height of banks (characteristics)		silt/clay/mud sand gravel cobbles (2 - 10" dia boulders (> 10" diar	m.)	X	11. Presence of log	gs or large woody debris in Occasional Plentiful
left 2-10 ft rig e) Approximate depth of pool(s X N/A 2. Plant Species Adjacent to stream (so):	in stream: None 8. Facing upstream	Occasional	ing organic material Unknown X Plentiful m have tree cover	extent to which veg 0% 25%	ory that best describes the etation shades the stream: 50% 100% 75% other%
Trees:		for 50 feet on the: left side What is the % cover		ight side no		ption that best fits the stream nel (facing upstream):
Understory: Solidago sempervirens, Typl Phalaris arundinacea, Dipsa Persicaria lapathifolium		left side Facing upstream, defor 50 feet on the: left side What is the % cover	oes this stream to no ri	ight side <u>no</u>		p Wide, Deep
Lawn X X Bot Pavem b) From the top of the streambank Left	Trees Bushes, Shrubs Tall grasses, forbs , maintained landecane ulders/Rocks(Rip Rap Gravel/Sand Bare Soil ent, Structures, Gabions	stream): P X X	Right C X X	Shelvi Chang Destru Presei Wrack Veget: Sedim Leaf li Scour	Check "U" if used to de all line impressed on the ng les in the character of action of terrestrial veg noe of litter and debristing ation matted down; be ent sorting tter disturbed or wash	etermine OHWM ne bank soil getation ent, or absent
	Trees Bushes, Shrubs Tall grasses, forbs , maintained landscape Boulders/Rocks	X X	X	X Bed at X Water X X Chang	oftion e observed flow even d banks staining e in plant community	
15. In the vicinity of the stream, Ch	Gravel/Sand Bare Soil avement, Structures eck "P" if present, "C" if		Right	7. Waters Type DELIN TNW TNWW RPWW RPWW	V	RPWNN NRPW NRPWW ISOLATE UPLAND TNWRPW
P C Natural Stre Bai Garbage/ Fo: Mud, silt, or Gart Yard waste of	eamside plant cover deg nks collapsed/eroded junk adjacent to the stre am or sheen on bank sand in or entering the s nage/junk in the stream on bank (Clippings, leave n or with unrestricted ac	raded Praded sam stream s, etc.)	C		nake note of wildlife deteren List grasshopp	ts such as bird wires)
Acti	vely discharging pipes Other pipes ches entering stream	X	A fi	Standing water furt		AMC and batch plant. awrence St. Input and output

Stream Characterization	Date: 9/17/2019	Time: 3:15pm	Site:	ORD	County:	Cook
Field ID: Stream Oitch	Stream Name:		Ditch 28		Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo	Overcast Clear/Sunny stream: 3-4 inches	3. Circle flow regime 4. Stream habitats p Pool(s) Riffles(s) 5. Stream Velocity: fast 6. Nature of the par	moderate Rui	n(s)	9. Water Appearan	sewage chlorine fishy rotten eggs orown orown orown neen X none ish
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	12-15 ft g	silt/clay/mud sand gravel cobbles (2 - 10" dian boulders (> 10" dian		X	stream:	gs or large woody debris in Occasional Plentiful
left 1 ft righ e) Approximate depth of pool(s): X N/A 2. Plant Species Adjacent to stream (scient forms): Trees: Fraxinus americana	t 1 ft	nedrock 7. Presence of in stream: None 8. Facing upstream, for 50 feet on the: left side		Unknown X Plentiful	extent to which vegative to which vegative 25% 13. Pick the description	ory that best describes the etation shades the stream: 50% 100% 75% other - % otion that best fits the stream lel (facing upstream):
Understory: Typha angustifolia, Solidago s	sempervirens f	What is the % cover left side Facing upstream, do for 50 feet on the: left side What is the % cover	0 % right pes this stream have noo right of shrubs per side	nt side		Wide, Deep
X X Lawn, Boul Paveme b) From the top of the streambank o Left P C T X X Lawn,	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil ent, Structures, Gabions	ream): R P X	Right CI	Shelvin Change Destruc Presen Wrackii Vegeta Sedime Leaf litt Scour Deposi Multiple Bed an X X Water s	line impressed on the ges in the character of tition of terrestrial vegoe of litter and debrising tition matted down; beint sorting er disturbed or washed to baserved flow event disturbed banks	etermine OHWM e bank soil etation nt, or absent ed away
15. In the vicinity of the stream, Che Left P C Natural Strea Bani Garbage/ju Foa Mud, silt, or s X Garba	Bare Soil vement, Structures and in or entering the stream or sheen on bank and in or entering the stream or ge/junk in the stream or ge/junk in the stream	ded P	Right C 18.	DELINE TNW TNWW RPW RPWW	D ake note of wildlife deteren List	NRPW NRPWW ISOLATE UPLAND X TNWRPW
Livestock in Active	bank (clippings, leaves, or with unrestricted acce ely discharging pipes Other pipes hes entering stream			Additional Comments Two sections separa	ated by gravel access	s road to equipment shed.

Stream Characterization	Date: 9/17/2019	Time: 3:30pm	Site:	ORD	County:	Cook
Field ID: Stream Ditch	Stream Name:		Ditch 29		Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo	4 inches	Stream habitats p Pool(s) Riffles(s) Stream Velocity: fast Nature of the parents.	rticles in the stream	n(s)	9. Water Appearan X clear milky foamy turbid light b dark b oily st orang green other:	sewage chlorine fishy rotten eggs orown organic orown heen X none ge none
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha		silt/clay/mud sand gravel cobbles (2 - 10" diar boulders (> 10" dian bedrock		X	stream:	gs or large woody debris in Occasional Plentiful
e) Approximate depth of pool(s): X N/A 2. Plant Species Adjacent to stream (sci		7. Presence of in stream: None 8. Facing upstream, for 50 feet on the:	f naturally occurrin Occasional does this stream	Unknown X Plentiful	extent to which vege X 0% 25%	ory that best describes the etation shades the stream: 50% 75% other% ption that best fits the stream
Trees: Understory: Typha angustifolia, Solidago s	sempervirens	left side What is the % cover left side Facing upstream, do for 50 feet on the: left side What is the % cover	r of <u>trees</u> per side 0 % righ oes this stream ha no righ r of <u>shrubs</u> per side	nt side 0 % ve shrub cover nt side no	bank and the chann a) Stream bank: Left S	Right Vertical/undercut Steeply sloping (>30°) radual/No slope (<30°) annel: p Wide, Deep
X X Lawn, Boul Paveme b) From the top of the streambank of Left P C T X X Lawn,	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil but structures, Gabions ut to 50 fee t: Trees Bushes, Shrubs all grasses, forbs maintained landscape Boulders/Rocks Gravel/Sand	" if common tream):	Right C X X Right C C C C C C C C C C C C C C C C C C C	heck "P" if observed; Cl P U Natural Shelvin Change Destruc Presen Wracki Vegeta Sedime Leaf litt Scour Deposi Multiple Bed an Water s X X Change	Mark Determination neck "U" if used to de line impressed on the g as in the character of ction of terrestrial veg ace of litter and debris ng tion matted down; bei ent sorting er disturbed or washe tion a observed flow event d banks staining e in plant community	etermine OHWM e bank soil letation nt, or absent ed away ts
15. In the vicinity of the stream, Che Left P C Natural Strea Ban Garbage/ji Foa Mud, silt, or s Garba Yard waste or	amside plant cover degra ks collapsed/eroded unk adjacent to the strea m or sheen on bank and in or entering the st ige/junk in the stream bank (clippings, leaves	ream , etc.)	Right C 18.	X DELINE TNW TNWW RPW RPW RPWW Observed Fauna (m: X Invertebrates Birds Mammals Reptile/Amph Fish	D ake note of wildlife deteren List butterflie	·
Activ	or with unrestricted acc ely discharging pipes Other pipes hes entering stream	ess		Additional Comments Roadside ditch alon	g Mannheim service ı	road near Wally Park.

Stream Characterization	Date: 8/13/2019	Time: 4:15pm	Site:	ORD	County:	Cook
Field ID: Stream/Ditch	Stream Name:		Ditch 30		Investigators:	BJH, CBM
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water fleating to the past of the	Overcast Clear/Sunny	3. Circle flow regime 4. Stream habitats p Pool(s) Riffles(s) 5. Stream Velocity: fast 6. Nature of the par	INTERM present: R X N moderate ticles in the stream	un(s) //A X slow N/A	9. Water Appearance clear X milky foamy turbid light b dark b oily sh orange greeni other:	sewage chlorine fishy rotten eggs organic other: none e none
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (chi	65-70 ft	silt/clay/mud sand gravel cobbles (2 - 10" diar boulders (> 10" dian	n.)	and come most	11. Presence of log	s or large woody debris in Occasional Plentiful
e) Approximate depth of pool(s) X N/A 2. Plant Species Adjacent to stream (sci	1-2 ft	bedrock	naturally occurri	ng organic material X Unknown Plentiful h have tree cover	extent to which vege X 0% 25%	ry that best describes the stream: 50%
Trees: N/A		left side What is the % cover left side	of <u>trees</u> per sid	ght side <u>no</u> e of the stream? ght side 0 %		el (facing upstream):
Understory: Lythrum salicaria, Phragmites Juncus nodosus, Eleocharis p upland; Dipsacus laciniatus, l	palustris	Facing upstream, do for 50 feet on the: left side What is the % cover	no right of shrubs per s	ave <u>shrub</u> cover ght side <u>yes</u> ide of the stream?	X Si Gra b) Shape of the cha	Vertical/undercut teeply sloping (>30°) adual/No slope (<30°) Innel: Wide, Deep X
X X Lawn, X Bou Pavement b) From the top of the streambank of Left P C X X X	Trees Bushes Shrubs Fall grasses, forbs maintained landscape Iders/Rocks/Rip Rap Gravel/Sand Bare Soil ent, Structures, Gabions	tream): P X X X	Right C X X X X X	Shelvin Change Destruc X Presen Wrackii Vegeta Sedime Leaf litt Scour Deposi Multiple Bed an Water s	line impressed on the g es in the character of stition of terrestrial vege ce of litter and debrising tion matted down; berent sorting er disturbed or washed took experted banks	termine OHWM e bank soil etation nt, or absent
15. In the vicinity of the stream, Che Left P C Natural Stream Ban Garbage/j Foa Mud, silt, or s Garba	Bare Soil evement, Structures eck "P" if present, "C" if c amside plant cover degra els collapsed/eroded unk adjacent to the strea am or sheen on bank eand in or entering the str age/junk in the stream	m eam	Right C 11	X TNW TNWW RPW RPWW	D ake note of wildlife deterent List dragonfly herron, mallar	NRPW NRPWW ISOLATE UPLAND TNWRPW s such as bird wires)
Livestock ir Activ	n bank (clippings, leaves, n or with unrestricted according pipes of the pipes Other pipes ches entering stream				and 72" culvert prese maintained lawn on b	ent; on north end, riprap and oth sides Last Revised: 09/25

Stream Characterization	Date: 9/25/2019	Time: 10:55am	Site:	ORD	County:	Cook
Field ID: Stream Ditch	Stream Name:		Ditch 31		Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo	2-4 inches	3. Circle flow regime 4. Stream habitats p Pool(s) Riffles(s) 5. Stream Velocity: fast 6. Nature of the part	resent: Riving	un(s) A slow X N/A	X clear milky foamy turbid	sewage chlorine fishy fishy organic brown brown heen X none ge none hish
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	3-10 ft	silt/clay/mud sand gravel cobbles (2 - 10" dian boulders (> 10" diam	n.)	X	11. Presence of log	gs or large woody debris in Occasional Plentiful
left 10 inches righ e) Approximate depth of pool(s): X N/A 2. Plant Species Adjacent to stream (scients)		in stream: None 8. Facing upstream,	Occasional	ng organic material Unknown X Plentiful have tree cover	extent to which veg 0% 25%	ory that best describes the letation shades the stream: 50%
Trees:		for 50 feet on the: left side What is the % cover left side	of trees per side	tht side <u>yes</u> of the stream? tht side <u>5</u> %		ption that best fits the stream nel (facing upstream): Right
Understory:		Facing upstream, do for 50 feet on the: left side What is the % cover	<u>no</u> rig	ht side <u>no</u>		p Wide, Deep
X X Lawn, Boul Paveme b) From the top of the streambank o Left P C T Lawn,	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil soit to 50 fee t: Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil Bushes, Gabions at to 50 fee t:	Retream):	ight C	Check "P" if observed; (PU Natura Shelvi Chang Destru Prese Wrack Veget Sedim Leaf li X Scour Depos Multip Bed a Water X X Chang Cha	cr Mark Determination Check "U" if used to de al line impressed on th ng jes in the character of action of terrestrial veg nce of litter and debris ation matted down; be ent sorting tter disturbed or washe sition le observed flow event nd banks staining je in plant community	n etermine OHWM ne bank soil getation ent, or absent ed away tts
X Par 15. In the vicinity of the stream, Che Left P C	Bare Soil vement, Structures ck "P" if present, "C" if		ight T	DELIN TNW TNWW RPW RPW		NRPW NRPWW ISOLATE UPLAND TNWRPW Issuch as bird wires)
Natural Strea Bani Garbage/ju Fara Mud, silt, or s X Garba Yard waste or	Imside plant cover degr ks collapsed/eroded ink adjacent to the stream or sheen on bank and in or entering the s ige/junk in the stream bank (clippings, leaves	arm tream X		Invertebrate: Birds Mammals Reptile/Amp	List hians	
X Active	or with unrestricted acc ely discharging pipes Other pipes nes entering stream	eess X		Additional Comments 24" culvert at east	end and near intersect	tion

Stream Characte	erization	Date: 9/26/& 9/2		Opm Site:		ORI)	_County:	Cook
Field ID: Stream	Oitch	Stream Name:		D	itch 32			Investigators:	CBM, BJH
Storm (heavy Rain (steady r Showers (inte	rain) X	Overcast Clear/Sunny	Circle flow r Stream hab Pool(s Riffles	itats present:	EPHEME NTERM Ru X N/	ITTENT) In(s)	PERENNIAL	9. Water Appearar clear milky foam turbic	sewage chlorine fishy
	lepth of water in s /A vidth of water flow	0-6 inches	5. Stream Velo	ocity: mode	rate	slow	X N/A	light t	orown organic other: heen X none
	/A	6-8 ft	o. Natare or ti	ic particles in		ttle Some		greer	
c) Approximate v (from top of ba top of bank)	-	25 ft	silt/clay/mud sand gravel cobbles (2 - 10)" diam)			X	stream:	gs or large woody debris in
	ight of banks (chan		boulders (> 10 bedrock					None	Toccasionali lentitui
e) Approximate of	right lepth of pool(s):	5 ft	in stre				Unknown	extent to which veg	ory that best describes the letation shades the stream: X 50% 100%
X N	•		None	Occas		X	Plentiful	25%	75% other%
Plant Species Adjace Trees: Rhamnus catt	ent to stream (scien	,	8. Facing upst for 50 feet on t left sid	the:		have <u>tre</u> ht side	<u>e</u> cover <u>no</u>		ption that best fits the stream nel (facing upstream):
Understory:	artica, i Taxiirae p	Joneyivamoa	What is the % left sid			of the sti ht side	ream? 0_%	a) Stream bank: Left	Right Vertical/undercut
	pervirens, Typha Istralis	angustifolia,	Facing upstreat for 50 feet on the	the:		ave <u>shrul</u> ht side	o cover	X G	Steeply sloping (>30°) radual/No slope (<30°) X
			What is the %			de of the		b) Shape of the ch Narrow, Dee X Narrow, Shal	p Wide, Deep
		Check "P" if present, bank only (facing up	'C" if common	Right	16	. Ordina	ry High Water	Mark Determination	n
P C		Trees		P C		P	U	line impressed on th	
X X X X	Tal	ushes, Shrubs I grasses, forbs aintained landscape		хх			Shelvin Change		soil
	Boulde	ers/Rocks/Rip Rap Gravel/Sand						ce of litter and debris	,
b) From the top of th		Bare Soil t, Structures, Gabion	S				Sedime	tion matted down; be ent sorting er disturbed or wash	
Left P C	e streambank out	· · · · · · · · · · · · · · · · · · ·		Right P C			Scour Deposi	tion	
XX		Trees ushes, Shrubs I grasses, forbs						e observed flow even d banks staining	ts
Х	Lawn, m	naintained landscape oulders/Rocks				Х		e in plant community	
		Gravel/Sand Bare Soil ement, Structures		ХХ	17	. Waters	DELINI TNW		RPWNN NRPW NRPWW
15. <u>In the vicinity of t</u> Left	<u>he stream</u> , Chec	k "P" if present, "C" if	common:	Right			TNWW RPW RPWW		ISOLATE UPLAND TNWRPW
P C	Banks	nside plant cover deg collapsed/eroded k adjacent to the stre		P C	18	X Obse	rved Fauna (m Invertebrates Birds	ake note of wildlife deterer List bees, butte	·
X	Mud, silt, or sar Garbag	or sheen on bank and in or entering the selfunk in the stream bank (clippings, leave					Mammals Reptile/Amph Fish	ians	
X	Livestock in o	r with unrestricted ac y discharging pipes Other pipes			19	Tree	al Comments removal and cl d Mannheim R		side of ditch; flows east
	Ditche	es entering stream			De	tacheet c	ntered by		Last Revised: 09/25

Stream Characterization	Date: 9/27/2019	Time: 9:30am	Site:	ORD	County:	Cook
Field ID: Stream Oitch	Stream Name:		Ditch 33		Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rai 1. a) Approximate depth of wa N/A b) Approximate width of wa	ter in stream:	3. Circle flow regime 4. Stream habitats p Pool(s) Riffles(s) 5. Stream Velocity: fast 6. Nature of the part	moderate	ITTENT In(s) A Islow X N/A	9. Water Appearant X clear milky foamy turbid light b dark b orang greeni other:	sewage chlorine fishy rotten eggs orown organic other: ee none ish
c) Approximate width of street (from top of bank to top of bank) d) Approximate height of bank	25 ft	silt/clay/mud sand gravel cobbles (2 - 10" dial boulders (> 10" diar		X	stream:	gs or large woody debris in Occasional Plentiful
e) Approximate depth of po X N/A 2. Plant Species Adjacent to strea		in stream: None 8. Facing upstream,	Occasional	ng organic material Unknown X Plentiful have tree cover	extent to which vege 0% 25%	ry that best describes the etation shades the stream: X 50% 100% 75% other%
Trees: Rhamnus cathartic	ca	for 50 feet on the: left side	<u>yes</u> rig	ht side <u>no</u>	· ·	otion that best fits the stream lel (facing upstream):
Understory: Solidago semperv. Typha angustifolia		What is the % cover left side Facing upstream, do for 50 feet on the: left side What is the % cover	50 % rig	ht side 0 % ave shrub cover ht side no		
b) From the top of the streamba Left P C X	Trees Bushes, Shrubs Tall grasses, forbs awn, maintained landscape Boulders/Rocks/Rip Rap Gravel/Sand Bare Soil wement, Structures, Gabions ank out to 50 fee t: Trees Bushes, Shrubs Tall grasses, forbs awn, maintained landscape Boulders/Rocks Gravel/Sand	tream): P X X	Right C X X X X X X X X X X X X X X X X X X	Shelvin Change Destrut Presen Wracki Vegeta Sedime Leaf litt Scour Deposi Multiple Bed an Water s X X Change	line impressed on the great in the character of estion of terrestrial vegice of litter and debrising tion matted down; berent sorting er disturbed or washed took event disturbed flow event disturbed of the conserved flow event distaining erin plant community	ntermine OHWM e bank soil etation nt, or absent ed away
X 15. In the vicinity of the stream Left	Bare Soil Pavement, Structures Check "P" if present, "C" if o		X	X DELINI TNW TNWW RPW RPWW		NRPW NRPWW ISOLATE UPLAND TNWRPW
Garba Mud, silt	Streamside plant cover degra Banks collapsed/eroded age/junk adjacent to the strea Foam or sheen on bank , or sand in or entering the st Barbage/junk in the stream te on bank (clippings, leaves	ream	C 18	X Invertebrates Birds Mammals Reptile/Amph	ake note of wildlife deterent List bees, butter	·
Livesto	ck in or with unrestricted acc Actively discharging pipes Other pipes Ditches entering stream			. Additional Comments 30" culvert on left si 30" culvert at west e		tch; 12" side culvert on right

Stream Characte	erization Date	9/17/2019	Time: 4:10	0pm Site:	OR	D	County:	Cook
Field ID: Stream	Ditch Stream	am Name:		Ditch	34		Investigators:	CBM, BJH
b) Approximate v	ain) Overc	ast Sunny ::	3. Circle flow r 4. Stream habi Pool(s Riffles 5. Stream Veld fast 6. Nature of th	itats present: (s) coity: moderate ne particles in the	X slow		9. Water Appearan clear milky foamy turbid light b dark b oily sl orang green other:	sewage chlorine fishy rotten eggs orown organic other: heen x none ge none hish X
c) Approximate v (from top of ba top of bank) d) Approximate he		50 ft	silt/clay/mud sand gravel cobbles (2 - 10 boulders (> 10				stream:	gs or large woody debris in Occasional Plentiful
e) Approximate of X N	epth of pool(s):	12 inches	in strea	nce of naturally or am: Occasion	al X	Unknown Plentiful		ory that best describes the etation shades the stream: 50% X 100% 75% other%
Trees:		,	for 50 feet on t left sid	the:	right side	no		ption that best fits the stream nel (facing upstream):
	íolia, Phragmites austra ervirens, Lythrum salic	alis, earia	left sid Facing upstrea for 50 feet on t left sid What is the %	am, does this stre the: le <u>no</u> cover of <u>shrubs</u>	right side am have <u>shru</u> right side per side of the	0 % b cover no stream?	b) Shape of the cha	p Wide, Deep
a) Along the water's Left P C	Bushes Tall grass Lawn, maintain Boulders/Ro Grave Bare Pavement, Stru e streambank out to 50 Tre Bushes Tall grass Lawn, maintain Boulder Grave Bare	only (facing upst ees , Shrubs ses, forbs ned landscape icks/Rip Rap 4/Sand e Soil ctures, Gabions		Right P C X X X Right P C X X X X X X		if observed; Cf U Natural Shelving Change Destruct Presend Wrackir Vegetat Sedime Leaf litte Scour Deposit Multiple Bed and Water's Change	s in the character of tion of terrestrial veg se of litter and debris in matted down; be nt sorting er disturbed or washe ion observed flow event d banks taining in plant community	etermine OHWM le bank soil letation ent, or absent led away
	ne stream, Check "P" if		ommon:	Right		TNWW TNWW RPWW	D	ISOLATE UPLAND TNWRPW
P C	Garbage/junk adja Foam or she Mud, silt, or sand in o Garbage/junk Yard waste on bank (o Livestock in or with	psed/eroded icent to the stream een on bank or entering the str in the stream clippings, leaves, unrestricted acce	m ream . etc.)	PC		Invertebrates Birds Mammals Reptile/Amphi Fish nal Comments	ans	ts such as bird wires)
X	Other	harging pipes pipes ering stream		X	Datashoot	J	ominated ditch behind	d parking lot.

Stream Cl	naracterization	Date: 9/19/2	19 Time : 8	3:15am	Site:	OR	D	County:	Cook
Field ID: 9	Stream Ditch	Stream Name:			Ditch 3	5		Investigators:	СВМ, ВЈН
Storm Rain (Showe 1. a) Appro	he past 24 hours: (heavy rain) steady rain) X ers (intermittent rain) ximate depth of water in N/A ximate width of water flo	6 inches	5. Stream fas	nabitats pro ol(s) fles(s) /elocity: t	moderate cles in the str	Run(s) N/A slow eam bottom Little Some	:	9. Water Appearan clear milky foam turbid X light t dark l oily si orang greer other	sewage chlorine fishy I rotten eggs organic brown other: heen X none ge none
(from top of	ximate width of stream: top of bank to bank) timate height of banks (cha	15 ft	silt/clay/mu sand gravel cobbles (2 boulders (>	- 10" diam			X	stream:	gs or large woody debris in Occasional Plentiful
	ximate depth of pool(s): X N/A ies Adjacent to stream (scie	35 ft	No 8. Facing u for 50 feet	ne	Occasional does this strea	X	Unknown Plentiful	extent to which veg 0% 25% 13. Pick the descri	ory that best describes the etation shades the stream: 50% 100% X 75% other% ption that best fits the stream nel (facing upstream):
Understory: Typha Dipsa	angustifolia, Solidago s cus laciniatus, Rhamnus	empervirens, cathartica	Facing ups for 50 feet	side tream, doe on the: side	es this stream yes of shrubs per	right side have <u>shru</u> right side	0 % b cover yes stream?		p Wide, Deep
	e the streamside cover. water's edge and strear			n	ght C	16. Ordina	ry High Water	Mark Determination	n
X X X X	Ta Lawn, Boul	Trees Bushes, Shrubs all grasses, forbs maintained landsca ders/Rocks/Rip Rap Gravel/Sand Bare Soil nt, Structures, Gab ut to 50 fee t:		X	X		Natural Shelvin Change Destruc Presen Wrackii Vegeta Sedime	es in the character of ction of terrestrial veg ce of litter and debris	soil letation ent, or absent
Left P C X X	l T: Lawn,	Trees Bushes, Shrubs all grasses, forbs maintained landsca Boulders/Rocks	pe	Ri ₁ P	ght C X	X	Scour Deposi Multiple Bed an Water s	tion e observed flow even d banks	ts
15. <u>In the vio</u>	Pav cinity of the stream, Che	Gravel/Sand Bare Soil /ement, Structures ck "P" if present, "C	" if common:			17. Waters	DELINE TNW TNWW RPW		RPWNN NRPW NRPWW ISOLATE UPLAND
Left P C	Bank Garbage/ju Foar Mud, silt, or s: Garba Yard waste on Livestock in Active	mside plant cover of as collapsed/erodec ink adjacent to the sim or sheen on bank and in or entering the ge/junk in the streat bank (clippings, lead or with unrestricted lely discharging pipe Other pipes	tream e stream n ves, etc.) access	Ri _P	ght C	19. Addition	RPWW rved Fauna (mi Invertebrates Birds Mammals Reptile/Amph Fish nal Comments toward Cyrsta	ake note of wildlife deterent List and List and List	TNWRPW its such as bird wires)
	DICCI	nes entering stream		L	<u> </u>	Datashoot o	natored by		Last Pavisod: 00/25

Stream Characterization	Date: 9/19/2019	Time: 8:15am	Site:	ORD	County:	Cook
Field ID: Stream Ditch	Stream Name:		Ditch 36		Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo	3-4 inches	3. Circle flow regime: 4. Stream habitats pr Pool(s) Riffles(s) 5. Stream Velocity: fast 6. Nature of the particles	esent: Ri X N/ moderate dicles in the streat	Un(s) A X slow N/A	9. Water Appearan X clear milky foamy turbid light b dark b oily sh orang green other:	sewage chlorine fishy rotten eggs orown orown neen X none e none ish
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	45 ft	silt/clay/mud sand gravel cobbles (2 - 10" diam boulders (> 10" diam		X	stream:	gs or large woody debris in Occasional Plentiful
left 15 ft righ e) Approximate depth of pool(s): x N/A 2. Plant Species Adjacent to stream (science)		in stream: None 8. Facing upstream, of	Occasional	ng organic material Unknown X Plentiful	extent to which vegently 0% X 25%	ory that best describes the etation shades the stream: 50% 100% 75% 100% other%
Trees: Fraxinus pennsylvanica	, Salix interior	for 50 feet on the: left side What is the % cover left side	of <u>trees</u> per side	tht side <u>yes</u> e of the stream? tht side <u>10</u> %	•	otion that best fits the stream let (facing upstream): Right Vertical/undercut
Typha angustifolia, Phragmite Euthamia graminifolia, Vitis rip		Facing upstream, dog for 50 feet on the: left side What is the % cover of 5%	<u>yes</u> rig of <u>shrubs</u> per s	ht side <u>yes</u>		Wide, Deep
X X Lawn, X Boul Paveme b) From the top of the streambank o Left P C X T X X Lawn,	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil ent, Structures, Gabions	C" if common stream): Ri P X X X	ight C	Check "P" if observed; CPUNatural Natural Shelvin Change Destrue Presen X Wracki X Vegeta Sedime Leaf litt Scour Deposi Multiple Bed an Water st	Mark Determination heck "U" if used to de line impressed on the ges in the character of ction of terrestrial veg ce of litter and debris ng tion matted down; bei ent sorting ter disturbed or washe	etermine OHWM e bank soil etation nt, or absent
15. In the vicinity of the stream, Che Left P C Natural Strea Bani Garbage/ju Foa Mud, silt, or s X Garba	Bare Soil vement, Structures	Ri P aded am tream X	ight C 18	X DELINI TNW TNWW RPW RPWW	ake note of wildlife deteren List butterflies, gr	NRPW NRPWW ISOLATE UPLAND TNWRPW Its such as bird wires)
Livestock in Active	or with unrestricted accely discharging pipes Other pipes nes entering stream			Additional Comments culvert at east end of includes SE65? atasheet entered by:	drains to Cyrstal Cree	k Last Revised: 09/25

Stream Ch	aracterization	Date:	9/27/2019	Time:	Site:	ORD)	County:	DuPage
Field ID: S	tream Ditch	Stream	Name:		Ditch 3	7		Investigators:	ВЈН
Storm Rain (s Showe	te past 24 hours: (heavy rain) X steady rain) urs (intermittent rain) ximate depth of water in x N/A ximate width of water flo		iny	Circle flow re Stream habit Pool(s) Riffles(Stream Velo fast A Nature of the Research Researc	tats present: (s) X city: moderate le particles in the st	RMITTENT Run(s) N/A slow	X N/A Most	9. Water Appearan	sewage chlorine fishy i rotten eggs orown organic brown other: heen X none ge none nish X
(from to	kimate width of stream: op of bank to pank) mate height of banks (chai		2 ft	silt/clay/mud sand gravel cobbles (2 - 10 boulders (> 10'			X	stream:	gs or large woody debris in Occasional Plentiful
,	3 ft right right right with a first right		3 ft	in strea	nce of naturally occuram: Occasional ream, does this stre	X	Unknown Plentiful		pery that best describes the letation shades the stream: 50% 100% 75% other%
Trees:				for 50 feet on the left side		right side _	no		ption that best fits the stream nel (facing upstream):
	ia cognata, Eupatorium is arundinacea, Solidagi		rens	left side Facing upstrea for 50 feet on the left side What is the % o	nm, does this strean he: e <u>no</u> cover of <u>shrubs</u> pe	right side have shrub right side r side of the si	0 % cover no tream?	X Gr b) Shape of the cha	p Wide, Deep
a) Along the value of the left	Ta Lawn, r Bould Pavemel op of the streambank ou E Ta Lawn, r E	Trees Bushes, Sh all grasses, maintained ders/Rocks Gravel/Sa Bare So nt, Structur tt to 50 fee Trees Bushes, Sh maintained Boulders/R Gravel/Sa Bare So ement, Str	rubs forbs landscape /Rip Rap ind il res, Gabions t: rubs forbs landscape ocks and il uctures esent, "C" if o	tream):	Right PC Right PC Right PC Right PC	Check "P" if P X 17. Waters T	y High Water f observed; Ch U Natural Shelving Change Destruc Presenc Wrackin Vegetat Sedime Leaf litte Scour Deposit Multiple Bed and Water s X Change TNW TNWW RPW RPWWI	s in the character of tion of terrestrial veg to of litter and debris ig on matted down; be nt sorting er disturbed or washe tion observed flow event a banks taining in plant community	n etermine OHWM see bank see bank seed away se
X	Bank Garbage/ju Foar Mud, silt, or sa Garba Yard waste on Livestock in Active	s collapseen he adjacen nor sheen and in or er ge/junk in the bank (clippor with unruly discharge Other pip	d/eroded It to the strea on bank Intering the stream bings, leaves estricted according pipes es	m ream , etc.)	X	- E	Invertebrates Birds Mammals Reptile/Amphi Fish al Comments		
	Ditch	es enterin	g stream			Datashast on	l l		Last Payingst: 00/25

Stream Cl	naracterization	Date: 9/26	3/2019 Time :	5:05pm	Site:	ORI	D	County:	Cook
Field ID: 9	Stream Ditch	Stream Nan	ne:		Ditch 3	8		Investigators:	CBM, BJH
Storm Rain (Showe 1. a) Appro	he past 24 hours: (heavy rain) steady rain) X ers (intermittent rain) ximate depth of water in N/A ximate width of water floo	4-6 inche	4. Strea 5. Strea	m habitats p Pool(s) Riffles(s) m Velocity: fast re of the par	moderate	RUN(S) N/A slow eam bottom:			sewage chlorine y d fishy d forown brown brown heen X none sewage chlorine fishy rotten eggs organic other: x none
(from top of	ximate width of stream: top of bank to bank) imate height of banks (chai	30 ft	boulders	(2 - 10" dian s (> 10" diam		Х	X	stream:	gs or large woody debris in Occasional Plentiful
,	15 ft right ximate depth of pool(s): X N/A ies Adjacent to stream (scie	15 ft		Presence of in stream:	Occasional does this stream	X	Unknown Plentiful		ory that best describes the letation shades the stream: 50% 100% X 75% other%
Trees:				et on the: left side	no	right side	no		ption that best fits the stream nel (facing upstream):
	mites australis, Lythrum us esculentus	salicaria,	Facing u	left side upstream, do et on the: left side	of trees per s 0 % oes this stream no of shrubs pe	right side have shrul right side r side of the	0 % b cover no stream?	b) Shape of the cha	p Wide, Deep
a) Along the Left P C X X X b) From the Left P C	Ta Lawn, r Bould Pavemei top of the streambank ou E Ta Lawn, r	Trees Bushes, Shrubs all grasses, forb: naintained land: lers/Rocks/Rip Gravel/Sand Bare Soil nt, Structures, Gut to 50 fee t: Trees Bushes, Shrubs all grasses, forb: naintained land: Soulders/Rocks Gravel/Sand Bare Soil ement, Structur	ing upstream): Gecape Rap abions	R P X	Right C X Right C C Right C C Right C C C C C C C C C C C C C C C C C C C	Check "P" P X X X 17. Waters	ry High Water if observed; Ch U Natural Shelving Change Destruc Presend Wrackir Vegetat Sedime Leaf litte Scour Deposit Multiple Bed and Water s X Change Type DELINE TNW RPW RPWWI	s in the character of tion of terrestrial veg to of litter and debris in matted down; be not sorting er disturbed or washed to observed flow event to banks taining in plant community.	n etermine OHWM ne bank soil getation sent, or absent ed away tts RPWNN NRPW NRPWW ISOLATE UPLAND TNWRPW
X	Bank Garbage/ju Foan Mud, silt, or sa Garba Yard waste on Livestock in v	mside plant cov s collapsed/ero nk adjacent to tl n or sheen on b. nnd in or enterin ge/junk in the st bank (clippings or with unrestric ly discharging p	ded ne stream ank g the stream ream leaves, etc.) ted access			19. Addition	Invertebrates Birds Mammals Reptile/Amphi Fish al Comments solid phragmit	ans List	ulverts
Х		Other pipes es entering stre		Х		right side: left side:	2 36" culverts, quad 30" roun		rates from stockpile to north

Stream Characterization Date: 8/30	/2019 Time: 1:30pm Site:	ORD	County:	Cook
Field ID: Stream Oitch Stream Nam	e: Ditch	39	Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in stream: N/A b) Approximate width of water flow: N/A 15 ft	4. Stream habitats present: Pool(s) Riffles(s) 5. Stream Velocity: fast moderate 6. Nature of the particles in the	slow X N/A	9. Water Appearance:	
c) Approximate width of stream: (from top of bank to top of bank) 35 ft d) Approximate height of banks (channel depth):	silt/clay/mud sand gravel cobbles (2 - 10" diam.) boulders (> 10" diam.)	X	11. Presence of logs or l stream: X None Occa	arge woody debris in sional Plentiful
e) Approximate depth of pool(s): X N/A 2. Plant Species Adjacent to stream (scientific name): Trees:	bedrock 7. Presence of naturally of in stream: None Occasiona 8. Facing upstream, does this st for 50 feet on the: left side yes	Unknown X Plentiful	12. Pick the category that extent to which vegetation 0% 25% 25%	n <u>shades</u> the stream: 50% X 100% 75% other% that best fits the stream
Understory: Phragmites australis, Lythrum salicaria, Typha angustifolia	What is the % cover of trees per left side 3 % Facing upstream, does this street for 50 feet on the: left side no What is the % cover of shrubs	right side 0 % am have shrub cover right side no per side of the stream?	Steeply Gradual b) Shape of the channel: Narrow, Deep	Wide, Deep
14. Describe the streamside cover. Check "P" if pre a) Along the water's edge and stream bank only (fact Left PCTRESSIDE Bushes, Shrubs XXX Bushes, Shrubs X I all grasses, forbs Lawn, maintained lands Boulders/Roct s(Rip F Gravel/Sand Bare Soil Pavement, Structures, G b) From the top of the streambank out to 50 fee t: Left PCTRESSIDE Bushes, Shrubs XXX Tall grasses, forbs XXX Tall grasses, forbs Lawn, maintained lands Boulders/Rocks Gravel/Sand	Right PC XXX Abitions Right PC Right PC Right PC	P U Natural Shelving Change Destruc X Presenc Wrackin Vegetat Sedime Leaf litte Scour Deposit Multiple X X Bed and Water s	neck "U" if used to determine impressed on the band goes in the character of soil tion of terrestrial vegetations of litter and debrising ion matted down; bent, or not sorting er disturbed or washed away ion observed flow events distance of the banks	k n absent
Bare Soil X X Pavement, Structure 15. In the vicinity of the stream, Check "P" if present, Left P C Natural Streamside plant cove Banks collapsed/eror Garbage/junk adjacent to th Foam or sheen on be Mud, silt, or sand in or entering X Garbage/junk in the str Yard waste on bank (clippings, Livestock in or with unrestric Actively discharging p Other pipes Ditches entering stre	"C" if common: Right P C r degraded ed estream nk the stream eam leaves, etc.) ed access pes	DELINE TNW TNWW RPW RPW RPW I8. Observed Fauna (ma X Invertebrates Birds Mammals X Reptile/Amphi Fish 19. Additional Comments	D X ke note of wildlife deterents such List butterfly	NRPW NRPWW ISOLATE UPLAND TNWRPW

Stream Characterization	Date: 8/19/2019	Time: 3:30pm	Site:	ORD	County:	Cook
Field ID: Stream/Ditch	Stream Name:		Ditch 40		Investigators:	СВМ
Weather in the past 24 hours: Storm (heavy rain)	unknown	3. Circle flow regime 4. Stream habitats prool(s) Pool(s) Riffles(s) 5. Stream Velocity: fast 6. Nature of the parunknown	present: The present The	MITTENT Run(s) I/A X slow N/A	dark	X sewage chlorine fishy d fishy organic brown organic brown other: sheen none nish
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	35 ft	silt/clay/mud sand gravel cobbles (2 - 10" dia boulders (> 10" diar	am.)		11. Presence of lo stream: X None	gs or large woody debris in Occasional Plentiful
e) Approximate depth of pool(s): N/A Plant Species Adjacent to stream (scie		7. Presence or in stream: X None 8. Facing upstream for 50 feet on the:	Occasional	ing organic material Unknown Plentiful n have <u>tree</u> cover	extent to which veg	ory that best describes the getation shades the stream: 50% 100% X 75% 100% other%
Trees: Understory:		left side What is the % cover	er of <u>trees</u> per sid	ght side no de of the stream? ght side %		nel (facing upstream): Right Vertical/undercut
Phragmites australis, Lythrum Dipsacus fullonum, Typha latii Trifolium sp., Helianthus annu	folia,	Facing upstream, do for 50 feet on the: left side What is the % cove	<u>yes</u> ri er of <u>shrubs</u> per	ght side <u>yes</u> side of the stream?	b) Shape of the ch	Steeply sloping (>30°) Gradual/No slope (<30°) nannel: pp Wide, Deep
X X Lawn, X Bould Paveme b) From the top of the streambank of Left P C X X Time Lawn, Left Left Left Left Left Left Left Left	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil nt, Structures, Gabion	stream): P X X	Right C X Right C C X X X X X X X X X X X X X X X X X	Shell Char Char Char Char Char Char Char Char	Check "U" if used to describe it used to descr	etermine OHWM ne bank f soil getation s ent, or absent ned away
15. In the vicinity of the stream, Che Left P C Natural Strea Bank X Garbage/ju Foar Mud, silt, or si	Bare Soil vement, Structures ck "P" if present, "C" if mside plant cover deg as collapsed/eroded ink adjacent to the streem or sheen on bank and in or entering the self-junk in the stream	raded P	Right C 1	DELI TNW TNW X RPW RPW	/WD //make note of wildlife deterer List es bees, drag night heron voles	NRPW NRPWW ISOLATE UPLAND TNWRPW nts such as bird wires)
Livestock in Active	bank (clippings, leave or with unrestricted ac ely discharging pipes Other pipes nes entering stream	· · · · · · · · · · · · · · · · · · ·		Additional Comment culverts at each expression at each expression.		nd post office; 1 check dam.

Stream Characterization	Date: 8/20/2019	Time: 1:30pm	Site:	ORD	County:	Cook
Field ID: Stream Ditch	Stream Name:		Ditch 41		Investigators:	CBM, KAS
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo	4-6 inches	3. Circle flow regime: 4. Stream habitats prool(s) Pool(s) Riffles(s) 5. Stream Velocity: fast 6. Nature of the part	Run(s X N/A	slow N/A	9. Water Appearand clear milky foamy turbid X light b dark be oily shorang green other:	sewage chlorine fishy rotten eggs orown orown neen X none e none ish
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	35 ft	silt/clay/mud sand gravel cobbles (2 - 10" diam boulders (> 10" diam	n.) X	X	stream:	gs or large woody debris in Occasional Plentiful
left 5-15 ft right e) Approximate depth of pool(s): X N/A 2. Plant Species Adjacent to stream (sci		in stream: None 8. Facing upstream,	naturally occurring o	Unknown X Plentiful	extent to which vege 0% 25%	ory that best describes the etation shades the stream: 50% X 100% 75% other%
Trees: Rhamnus cathartica		for 50 feet on the: left side	_yes right s	side <u>no</u>		otion that best fits the stream nel (facing upstream):
Understory: Phragmites australis, Lythrum Typha angustifolia	salicaria,	What is the % cover left side Facing upstream, do for 50 feet on the: left side	3 % right s	side 0 % shrub cover		Vertical/undercut Steeply sloping (>30°) Adual/No slope (<30°) Adual/No slope (<30°)
Describe the streamside cover. Along the water's edge and streams.			0% Obser	ver initials:	Narrow, Deep Narrow, Shall r Mark Determination	o Wide, Deep low Wide, Shallow X
Left P C X X T Lawn, X Boul Paveme b) From the top of the streambank of Left P C X X T Lawn, Boul Left P C X X T Lawn, Boul	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil ent, Structures, Gabions ut to 50 fee t: Trees Bushes, Shrubs all grasses, forbs maintained landscape Boulders/Rocks Gravel/Sand	Ri P	C X X ight C X	P U Natura Shelvir Chang Destru X Preser Vegeta Sedime Leaf lit Scour Deposi Multiple X X Bed an Water X X Chang	es in the character of ction of terrestrial vegue of litter and debris ng tition matted down; berent sorting ter disturbed or washed tition e observed flow event dat banks staining e in plant community	e bank soil etation nt, or absent ed away ts
15. In the vicinity of the stream, Che	Bare Soil vement, Structures ock "P" if present, "C" if		ight	DELIN TNW TNWW X RPW RPWW	/ /D	NRPW NRPWW ISOLATE UPLAND TNWRPW
Ban	miside plant cover degrass collapsed/eroded unk adjacent to the stream or sheen on bank and in or entering the sige/junk in the stream bank (clippings, leaves	am X tream X	C 18.	Observed Fauna (m X Invertebrates Birds X Mammals X Reptile/Amph Fish	rabbits	ts such as bird wires)
Livestock in Activ	or with unrestricted acc ely discharging pipes Other pipes hes entering stream			dditional Comments		Last Revised: 09/25

Stream Characterization	Date: 8/19/2019	Time: 3:30pm	Site:	ORD	County:	Cook
Field I Stream/Dish	Stream Name:		Ditch 42		Investigators:	СВМ
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water N/A b) Approximate width of water	unknown	3. Circle flow regime: 4. Stream habitats pn Pool(s) Riffles(s) 5. Stream Velocity: fast 6. Nature of the partiunknown	esent: Run(s) X N/A moderate X slicles in the stream boti	ow N/A	9. Water Appearanc clear X milky foamy turbid light bi dark bi oily sh orange greeni	x sewage chlorine fishy rotten eggs organic rown other: none en none
c) Approximate width of stream (from top of bank to top of bank) d) Approximate height of banks (it	n: 35 ft	silt/clay/mud sand gravel cobbles (2 - 10" diam boulders (> 10" diam.		ome Most	stream:	s or large woody debris in Occasional Plentiful
1 ft	ght 2 ft	bedrock 7. Presence of r in stream: X None 8. Facing upstream, of	naturally occurring org Occasional does this stream have	Unknown Plentiful	extent to which vege 0% 25%	ry that best describes the etation shades the stream: 50% 100% X 75% 0ther%
Trees:			no right side	e stream?	13. Pick the descrip bank and the channea) Stream bank:	tion that best fits the stream el (facing upstream):
Understory: Phragmites australis, Lythri Dipsacus fullonum, Typha l Trifolium sp., Helianthus an	atifolia,	for 50 feet on the: left side What is the % cover o	0% right side es this stream have <u>standard</u> yes right side ofshrubs_per side of	nrub cover yes the stream?	X St X Gra b) Shape of the cha Narrow, Deep	Wide, Deep
Pave b) From the top of the streambanl Left P C X X X	Trees Bushes, Shrubs Tall grasses, forbs n, maintained landscape oulders/Rocks/Rip Rap Gravel/Sand Bare Soil ment, Structures, Gabions	tream): Ri P X	ght Check C X ght X X Gheck X X C C C C C C C C C C C	"P" if observed; Ch P U Natural I Shelving Change: Destruct Presenc X Wrackin Vegetati Sedimer Leaf litte Scour Depositi Multiple X X Bed and	s in the character of s ion of terrestrial vege e of litter and debris g on matted down; ben at sorting or disturbed or washe on observed flow events banks	termine OHWM be bank soil etation nt, or absent d away
15. In the vicinity of the stream, C Left P C Natural St B X Garbage F Mud, silt, o Gai	Bare Soil Pavement, Structures Theck "P" if present, "C" if or Treamside plant cover degra Treamside plant cover degra Treamside plant cover degra Treamside plant cover degra Treamside plant to the stream Tream or sheen on bank Tream or entering the st Treamside plant in the stream	Ri P X X ream	ght	DELINE TNW TNWW X RPW RPWWI	ce note of wildlife deterents List bees, dragor night heron voles	NRPW NRPWW ISOLATE UPLAND TNWRPW s such as bird wires)
Livestock Ac	on bank (clippings, leaves in or with unrestricted acc tively discharging pipes Other pipes itches entering stream		CL	tional Comments	between Taft Rd and	l post office; 1 check dam. Last Revised: 09/25

Stream Char	acterization	Date:	8/19/2019	Time:	2:30 PM	Site:	ORI	D	County:	Cook
Field ID: Stre	amDitch	Stream	Name:			Ditch 4	13		Investigators:	СВМ
1. a) Approxima	avy rain) dy rain) X intermittent rain) ate depth of water in a control of water in a control of water flow	v:		4. Strea 5. Strea	m habitats p Pool(s) Riffles(s) m Velocity: fast re of the par	interesent: X Market Ma			9. Water Appearan Clear X milky foamy turbid light b dark b oily sh orang green	sewage chlorine fishy rotten eggs orown orown orown neen x none e none ish
(from top top of ban			25 ft		mud (2 - 10" diar s (> 10" diam	n.)	Little Some	NOST	stream:	gs or large woody debris in Occasional Plentiful
left 2 e) Approxima	ft right ate depth of pool(s):		2 ft	bedrock 7. X 8. Facin	Presence of in stream:	Occasional does this stre		Unknown Plentiful	extent to which vege 0% X 25%	ory that best describes the etation shades the stream: 50% 100% 75% 100 ther - %
Trees:				What is	left side the % cover	no no feres per			bank and the chann a) Stream bank:	otion that best fits the stream lel (facing upstream):
	Phragmites aistralis, L Vitis riparia, Dipsacu			Facing ut	et on the: left side	0% pes this streamyes of shrubs per 25%	right side	_yes stream?		Wide, Deep
a) Along the wat Left P C	Ta Lawn, n Bould Pavemer of the streambank ou B Ta Lawn, n	Trees sushes, Sh Il grasses, naintained ers/Rocks Gravel/Sa Bare So nt, Structur t to 50 fee Trees sushes, Sh Il grasses,	y (facing ups urubs forbs landscape /Rip Rap and bil res, Gabions t: urubs forbs landscape ocks		P X	Right C X X X X X X X	16. Ordina	ry High Water if observed; Cf U Natural Shelving Change Destruct Present Wrackir Vegetat Sedime Leaf litte Scour Deposit Multiple X Bed and Water s X Change	Mark Determination neck "U" if used to de line impressed on the g s in the character of tion of terrestrial veg- te of litter and debris ng ion matted down; bei nt sorting er disturbed or washe ion observed flow event d banks	etermine OHWM e bank soil etation nt, or absent
X X 15. In the vicinity Left P C X X X	v of the stream, Chec Natural Strear Bank: Garbage/jur Foam Mud, silt, or sa	Bare So ement, Str k "P" if pre mside plan s collapsed k adjacen n or sheen nd in or er ge/junk in t	oil cuctures esent, "C" if control esent to the streat on bank entering the streat	aded m ream		Right	X	DELINE TNW TNWW RPW RPWWI	D kke note of wildlife deterent List bees, night l rabbit	NRPW NRPWW ISOLATE UPLAND TNWRPW ts such as bird wires) , butterflies
X	Livestock in o		estricted according pipes es					area through cu		sides by fence. Enters and harging from post office. Last Revised: 09/25

Stream Characterization	Date: 8/29/2019	Time: 11:45 AM Site:	ORD	County:	Cook
Field ID: Stream Oitch	Stream Name:	Ditc	h 44	Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in	Overcast Clear/Sunny stream: 6-12 inches	~	Run(s) X N/A X Slow N/A	9. Water Appearant X clear milky foamy turbid light b dark b oily sh	sewage chlorine fishy rotten eggs rown orown other:
b) Approximate width of water flow N/A c) Approximate width of stream: (from top of bank to top of bank)	w: 10 ft 18 ft	6. Nature of the particles in the No silt/clay/mud sand gravel cobbles (2 - 10" diam.)	e stream bottom:	stream:	
d) Approximate height of banks (challeft 3 ft right e) Approximate depth of pool(s): N/A 2. Plant Species Adjacent to stream (scie	8 ft	boulders (> 10" diam.) bedrock 7. Presence of naturally of in stream: None X Occasion 8. Facing upstream, does this		12. Pick the catego extent to which vege X 0% 25%	ry that best describes the etation shades the stream: 50% 100% 75% 100%
Trees: Understory: Typha angustifolia, Pha Alisma subcordatum	laris arundinacea,	for 50 feet on the: left side no What is the % cover of trees p left side 0 % Facing upstream, does this str for 50 feet on the: left side no	right side <u>0</u> % eam have <u>shrub</u> cover right side <u>no</u>	bank and the chann a) Stream bank: Left S	vertical/undercut teeply sloping (>30°) adual/No slope (<30°)
Table Lawn, X X Bould Paveme b) From the top of the streambank of Left P C Table Lawn, Table Lawn, Table Lawn, Table Lawn,	n bank only (facing ups Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil nt, Structures, Gabions		Observer initials: 16. Ordinary High Water Check "P" if observed; C P Natura Shelvir Change Destrue Presen Wracki Vegeta Sedime Leaf litt Scour Deposi Multiple Bed an Water s	heck "U" if used to de line impressed on the g es in the character of a ction of terrestrial vego ce of litter and debris ng tion matted down; ber ent sorting ter disturbed or washe	ow Wide, Shallow X Itermine OHWM e bank soil etation nt, or absent ed away
15. In the vicinity of the stream, Che Left P C Natural Strea Bank Garbage/ju Foar Mud, silt, or s: Garba Yard waste on Livestock in Active	Bare Soil rement, Structures ck "P" if present, "C" if commission plant cover degrates collapsed/eroded ink adjacent to the stream or sheen on bank and in or entering the stream bank (clippings, leaves or with unrestricted accely discharging pipes Other pipes nes entering stream	Right P C aded Im ream , etc.)	Invertebrates Birds Mammals Reptile/Amph Fish 19. Additional Comments riprap armore	Axe note of wildlife deterent List ians	NRPW NRPWW ISOLATE UPLAND TNWRPW Is such as bird wires) It set Bevised: 09/25

Stream Characterization	Date: 9/19/2019	Time: 5:30pm Site:	ORD	County:	Cook
Field ID: Stream Ditch	Stream Name:	Ditch -	45	Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain)	Overcast Clear/Sunny	4. Stream habitats present: Pool(s) Riffles(s) X	EMERAL PERENNIAL RMITTENT Run(s) N/A	Water Appearance: clear milky X foamy turbid	sewage chlorine fishy rotten eggs
Approximate depth of water in N/A b) Approximate width of water flo	2-3 inches	Stream Velocity: fast	slow X N/A tream bottom:	light brow dark brov X oily shee orange greenish other:	wn other: n none
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	20 ft	silt/clay/mud sand gravel cobbles (2 - 10" diam.) boulders (> 10" diam.)	X	stream:	or large woody debris in
left 3 ft right e) Approximate depth of pool(s): X N/A 2. Plant Species Adjacent to stream (sci	t 3 ft	bedrock 7. Presence of naturally occ in stream: None X Occasional 8. Facing upstream, does this str	Unknown Plentiful	12. Pick the category t extent to which vegetat 0% 25%	that best describes the tion shades the stream: 50% X 100% 75% other%
Trees:		for 50 feet on the: left side <u>yes</u>	right side <u>yes</u>	bank and the channel (n that best fits the stream (facing upstream):
Understory:		What is the % cover of trees per left side 100 % Facing upstream, does this stream for 50 feet on the: left side no	right side <u>5</u> % m have <u>shrub</u> cover right side <u>yes</u>	X Stee	ertical/undercut eply sloping (>30°) ual/No slope (<30°) El:
14. Describe the streamside cover.	Check "P" if present. "	What is the % cover of shrubs p 0 10% C" if common	Observer initials:	Narrow, Deep X Narrow, Shallow	Wide, Deep
a) Along the water's edge and streat Left PCXXXX X I Lawn, Boul XXX Paveme b) From the top of the streambank of Left PCXX I Lawn, T Lawn, T Lawn, T Lawn, T Lawn, T Lawn, T Lawn,	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil ent, Structures, Gabions	Right PC X X X X	Shelvin Change Destruc Presen Wrackii Vegetal Sedime Leaf litt Scour Deposit Multiple X X Bed an X Water s	line impressed on the barg g se in the character of soil stion of terrestrial vegetal se of litter and debris ng sion matted down; bent, of the character of soil stion of terrestrial vegetal se of litter and debris ng sion matted down; bent, of the character of soil stion of terrestrial vegetal se of litter and debris sion sobserved flow events d banks staining e in plant community	ank I tion or absent
Pa 15. <u>In the vicinity of the stream</u> , Che	vement, Structures	Right	TNW TNWW X RPW RPWW	D	NRPWW ISOLATE UPLAND TNWRPW
Ban Garbage/ju Foa Mud, silt, or s Garba	unside plant cover degr ks collapsed/eroded ink adjacent to the stream or sheen on bank and in or entering the s ige/junk in the stream bank (clippings, leaves	am tream	X Invertebrates Birds Mammals Reptile/Amphi	ake note of wildlife deterents su List dragonflies ans	ucn as dird wires)
Livestock in Activ	or with unrestricted according to the control of th		19. Additional Comments under road cu	lvert feeds stream	Last Revised: 09/25

Stream Characterization	Date: 9/28/2019 T	Time: 10:00am Site:	ORD	County:	Cook
Field ID: Stream Ditch	Stream Name:	Ditch	46	Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo	Overcast Clear/Sunny 4. stream: 5.		Run(s) N/A slow X N/A stream bottom:	9. Water Appearant clear milky foamy turbid light b oily sh	sewage chlorine fishy rotten eggs rown organic other: leen X none e
N/A c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	4-6 ft grich sinnel depth):	ilt/clay/mud and ravel obbles (2 - 10" diam.) oulders (> 10" diam.) edrock	e Little Some Most X Curring organic material	other: 11. Presence of log stream: X None 12. Pick the categor	is or large woody debris in Occasional Plentiful ry that best describes the etation shades the stream:
e) Approximate depth of pool(s): X N/A 2. Plant Species Adjacent to stream (sci Trees: Morus alba, Acer negui Rhamnus cathartica	fo	x None Occasional Facing upstream, does this stor 50 feet on the: left side no		0% X 25%	50% 100% 75% other - % botton that best fits the stream el (facing upstream):
Understory: Phalaris arundinacea, Carex solidago sempervirens, Rume Eleocharis obtusa, Sambucus	sp., F. ex crispus, for canadensis	Vhat is the % cover of trees pe left side 0 % Gacing upstream, does this stree or 50 feet on the: left side no Vhat is the % cover of shrubs	right side 80 % am have shrub cover right side yes per side of the stream?	X Gra b) Shape of the cha Narrow, Deep	Wide, Deep
X X Lawn, Boul Paveme b) From the top of the streambank co Left P C X X Lawn, Boul	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil wit, Structures, Gabions ut to 50 fee t: Trees Bushes, Shrubs all grasses, forbs maintained landscape Boulders/Rocks Gravel/Sand		Shelvin Change Destruc Presen Wracki Vegeta Sedime Leaf litt Scour Deposi Multiple Bed an X Water s	X Narrow, Shall Mark Determination heck "U" if used to detail line impressed on the ges in the character of stion of terrestrial vege ce of litter and debrising the character down; berent sorting er disturbed or washed	www. Wide, Shallow termine OHWM e bank soil etation nt, or absent ed away s
15. In the vicinity of the stream, Che Left P C Natural Stream Ban Garbage/ji Foa Mud, silt, or s Garba Yard waste or Livestock in Activ	amside plant cover degrad as collapsed/eroded ink adjacent to the stream m or sheen on bank and in or entering the streage/junk in the stream bank (clippings, leaves, or with unrestricted accesely discharging pipes Other pipes	Right P C led In I	X DELINI TNW TNWW RPW RPWW 18. Observed Fauna (m Invertebrates Birds Mammals Reptile/Amph Fish 19. Additional Comments	D ake note of wildlife deterent List	
Ditc	nes entering stream		Datasheet entered by:		Last Revised: 09/25

Stream Characterization	Date: 9/19/2019	Time: 4:40pm Site	e: ORD	County:	Cook
Field ID: Stream Oitch	Stream Name:		Ditch 47	Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) X Showers (intermittent rain)	Overcast Clear/Sunny	Circle flow regime: Stream habitats present Pool(s) Riffles(s)	Run(s) X N/A	9. Water Appearanc X clear milky foamy turbid	sewage chlorine fishy rotten eggs
Approximate depth of water in N/A b) Approximate width of water flo	2 inches	Stream Velocity: fast	in the stream bottom: None Little Some Most	light br dark br oily she orange greenis other:	rown other: een X none
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	25 ft	silt/clay/mud sand gravel cobbles (2 - 10" diam.) boulders (> 10" diam.)	X	11. Presence of logs stream:	s or large woody debris in
e) Approximate depth of pool(s):		bedrock 7. Presence of natura in stream: None X Occa	ally occurring organic material Unknown asional Plentiful this stream have tree cover		y that best describes the tation shades the stream: 50% 100% X 75% other%
Plant Species Adjacent to stream (scient sees: Rhamnus cathartica, See Fraxinus pensylvanica	•	for 50 feet on the: left sideyes		13. Pick the descript bank and the channea) Stream bank:	tion that best fits the stream of (facing upstream):
Understory: Vitis riparia, Typha angustifoli Lythrum salicaria	а,	left side 30 Facing upstream, does this for 50 feet on the: left side yes	% right side <u>20</u> % s stream have <u>shrub</u> cover	Left X Str Gra b) Shape of the char	
X T Lawn, Boul Paveme b) From the top of the streambank o Left P C T Lawn,	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil ent, Structures, Gabions ut to 50 fee t: Trees Bushes, Shrubs all grasses, forbs maintained landscape Boulders/Rocks Gravel/Sand	30% 209 C" if common Stream Right P C X X X X X C C C	Check "P" if observed; CPU Natura Shelvin Chang Destru Preser Wracki Vegeta Sedimu Leaf lit Scour Depos Multipl X Bed ar Water	heck "U" if used to determine the impressed on the inguities in the character of socion of terrestrial vegence of litter and debrising the intermediate the intermediate in the intermedia	ermine OHWM bank oil tation t, or absent d away
15. In the vicinity of the stream, Che Left P C Natural Strea Bani Garbage/ji Foa Mud, silt, or s X X Garba Yard waste or	Bare Soil vement, Structures ck "P" if present, "C" if imside plant cover degress collapsed/eroded ink adjacent to the streem or sheen on bank and in or entering the sige/junk in the stream bank (clippings, leaves or with unrestricted according the sige/junk in the stream bank (clippings, leaves or with unrestricted according the significant stream bank (clippings, leaves or with unrestricted according the stream bank (clippings, leaves or with unrestricted according the stream bank (clippings, leaves or with unrestricted according to the stream bank (clippings, leaves or with unrestricted according to the stream bank (clippings).	Right	X DELIN TNW TNWW RPW RPW RPW Is. Observed Fauna (m Invertebrates Birds Mammals Reptile/Amph Fish	/D ake note of wildlife deterents List	NRPW NRPWW ISOLATE UPLAND TNWRPW such as bird wires)
X Active	or with unrestricted acc ely discharging pipes Other pipes nes entering stream	X		est end drains to ditch.	Last Revised: 09/25

Stream Characterization	Date: 9/26/2019	Time: 9:00am Site:	ORD	County:	Cook
Field ID: Stream Oitch	Stream Name:	Ditch 4	18	Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of wate	Overcast Clear/Sunny r in stream: 2 inches		RMITTENT Run(s) N/A Slow X N/A	9. Water Appearance clear milky foamy turbid light bro dark bro X oily she	sewage chlorine fishy rotten eggs own own other:
b) Approximate width of water N/A c) Approximate width of strea	12 ft	Nature of the particles in the st None silt/clay/mud	Little Some Most	orange greenisl other:	none
(from top of bank to top of bank) d) Approximate height of banks (25 ft	sand gravel cobbles (2 - 10" diam.) boulders (> 10" diam.)	X	stream:	or large woody debris in
e) Approximate depth of pool	10 ft s):	7. Presence of naturally occin stream: None Occasional	urring organic material Unknown X Plentiful		that best describes the ation shades the stream: 50% X 100% 75%
X N/A 2. Plant Species Adjacent to stream Trees:	,	Facing upstream, does this stre for 50 feet on the: left sideyes	right side <u>yes</u>	13. Pick the description	on that best fits the stream (facing upstream):
Populus deltoides, Rhamni Salix sp. Understory: Phragmities australis, Typh Lythrum salicaria, Eupatori	a angustifolia,	What is the % cover of trees per left side 20 % Facing upstream, does this strear for 50 feet on the: left side yes	right side 20 %	X Ste	/ertical/undercut eply sloping (>30°) dual/No slope (<30°)
14. Describe the etropheids say	or Chaok "D" if procent "	What is the % cover of <u>shrubs</u> pe	er side of the stream? Observer initials:	b) Shape of the chan Narrow, Deep X Narrow, Shallov	Wide, Deep
X Pave b) From the top of the streamban Left P C X X X X X X X X	Trees Bushes, Shrubs Tall grasses, forbs rn, maintained landesape oulders/Rocks(Rip Rap Gravel/Sand Bare Soil ment, Structures, Gabions	Right P C X X X X X X	Shelvin Change Destruc Presen Wrackii Vegeta Sedime Leaf litt Scour Deposii Multiple Bed an Water s	line impressed on the I g es in the character of so stion of terrestrial vegets ce of litter and debris ng tion matted down; bent, int sorting er disturbed or washed cion e observed flow events d banks etaining e in plant community	pank pil ation or absent
15. <u>In the vicinity of the stream</u> , C	Pavement, Structures	Right	TNW TNWW RPW RPWW		NRPWW ISOLATE UPLAND TNWRPW
B Garbag F Mud, silt, c X Ga	reamside plant cover degr anks collapsed/eroded e/junk adjacent to the stre oam or sheen on bank or sand in or entering the s rbage/junk in the stream on bank (clippings, leave	am tream X	Invertebrates X Birds Mammals Reptile/Amph Fish	List	such as UIIU WIIES)
X Livestock	in or with unrestricted acc tively discharging pipes Other pipes itches entering stream			from detention area to vert at west end; roadsid	west. Fenced in lot on right de ditch from north.

Stream Characterization	Date: 9/18/2019	Time: 9:20 AM	Site:	ORD	County:	Cook
Field ID: Stream Ditch	Stream Name:		erosional feat	tures	Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of wate X N/A b) Approximate width of wate	er in stream:	3. Circle flow regime 4. Stream habitats p Pool(s) Riffles(s) 5. Stream Velocity: fast 6. Nature of the part	moderate	dun(s) I/A slow x N/A	9. Water Appearan clear milky foamy turbid light b dark b oily sf orang green other:	sewage chlorine fishy rotten eggs orown organic other: heen x none ge none hish x
c) Approximate width of streat (from top of bank to top of bank) d) Approximate height of banks		silt/clay/mud sand gravel cobbles (2 - 10" dian boulders (> 10" dian	m.)	X	stream:	gs or large woody debris in
e) Approximate depth of poo		in stream:	Occasional	ing organic material Unknown Plentiful		ory that best describes the etation shades the stream: 50% x 100% 75% other%
Plant Species Adjacent to stream Trees: Acer negundo, Populus de Rhamnus cathartica	,	Facing upstream, for 50 feet on the: left side What is the % cover	ri of <u>trees</u> per sid	ght sidele of the stream?		ption that best fits the stream nel (facing upstream):
Understory:		left side Facing upstream, do for 50 feet on the: left side What is the % cover	oes this stream h	ght side		
Pav. b) From the top of the streambar Left P C X X	Trees Bushes, Shrubs Tall grasses, forbs vn, maintained landscape foulders/Rocks/Rip Rap Gravel/Sand Bare Soil ement, Structures, Gabions ik out to 50 fee t: Trees Bushes, Shrubs Tall grasses, forbs vn, maintained landscape Boulders/Rocks Gravel/Sand	C" if common stream): R P X X	Right C X	Check "P" if observed; CP UNAtura Shelvin Chang Destru Preser Wrack Vegeta Sedim Leaf lit X X Bed ar Water Chang Chang T. Waters Type	Narrow, Shall r Mark Determination heck "U" if used to de I line impressed on the g es in the character of ction of terrestrial veg ice of litter and debris ng ittion matted down; bei ent sorting ter disturbed or washe tion e observed flow event id banks staining e in plant community	etermine OHWM e bank soil etation ent, or absent ed away ts
Garbag Mud, silt, Garbag Mud, silt, Garbag Yard wast	treamside plant cover degranks collapsed/eroded le/junk adjacent to the strefoam or sheen on bank or sand in or entering the sarbage/junk in the stream on bank (clippings, leavesk in or with unrestricted acceptance on bank (clippings, leavesk in or with unrestricted acceptance on bank (clippings, leavesk in or with unrestricted acceptance on bank (clippings, leavesk in or with unrestricted acceptance of the control of the	aded P		Invertebrates Birds Mammals Reptile/Amph Fish 9. Additional Comments	//D ake note of wildlife deterent List	
	ctively discharging pipes Other pipes Ditches entering stream			Two epheme above Willow Creek		gh bank erosion to bench Last Revised: 09/25

Stream Characterization	Date: 9/17/2019	Time: 2:15p	pm Site:	ORD	County:	Cook
Field ID: Stream Ditch	Stream Name:		Higgins Creek	- section 1	Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo	2 ft		INTE ats present: S) X Sity: X moderate Exparticles in the st	RMITTENT Run(s) N/A Slow	N/A dark	sewage chlorine ny fishy d rotten eggs brown organic brown other: sheen X none ge none nish
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	55 ft	silt/clay/mud sand gravel cobbles (2 - 10" boulders (> 10"		X	11. Presence of lo stream: X None	ogs or large woody debris in Occasional Plentiful
left 5 ft right e) Approximate depth of pool(s): X N/A 2. Plant Species Adjacent to stream (scie		in strear None 8. Facing upstre	m: X Occasional eam, does this stre	urring organic mater Unkno	extent to which vegown X 0% 25%	ory that best describes the getation shades the stream: 50% 100% 75% 100% other%
Trees:		for 50 feet on the left side	<u>no</u>	right side no	bank and the chan	iption that best fits the stream nel (facing upstream):
Understory: Phragmites australis, Lythrum Persicaria sp.	salicaria,	left side Facing upstrean for 50 feet on the left side What is the % co	m, does this streame: no eservices no over of shrubs pe	right side 0 n have shrub cover right side no er side of the stream	b) Shape of the ch	ep Wide, Deep
X X ITALAWN, I Bould Support to the streambank of Left P C I I I I I I I I I I I I I I I I I I	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rock (Rip Rap Gravel/Sand Bare Soil nt, Structures, Gabions	stream):	Right PC XXX Right PC XXX XX	Check "P" if obse P U X X X X	Narrow, Shah Water Mark Determination and the water Mark Determination and the water of the wate	etermine OHWM he bank f soil getation s ent, or absent hed away
15. In the vicinity of the stream, Che Left P C Natural Strea X X Bank Garbage/ju Foar Mud, silt, or si Garba	Bare Soil rement, Structures	aded am	Right P C X X X	18. Observed Fa X Inverto X Birds Mamr	DELINEATE TNW TNWW RPW RPWWD auna (make note of wildlife detere List ebrates dragonflies, b ducks mals e/Amphians	NRPW NRPWW ISOLATE UPLAND TNWRPW ints such as bird wires)
Livestock in Active	or with unrestricted acc ely discharging pipes Other pipes nes entering stream			19. Additional Com More natura reinforcement	ll stream bank; no riprap exc nt	cept some used for bank Last Revised: 09/25

Stream Characterization	Date: 9/17/2019	Time: 2:00pr	m Site:	ORD	County:	Cook
Field ID: Stream/Ditch	Stream Name:	Н	liggins Creek -	section 2	Investigators:	CBM, BJH
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) X Showers (intermittent rain)	Overcast Clear/Sunny	Circle flow regi Stream habitate Pool(s)	INTER	MERAL PERENNIA RMITTENT Run(s)	X clear milky foam;	sewage chlorine
Approximate depth of water in N/A Approximate width of water floating to the second	5-6 ft w:	Riffles(s) 5. Stream Velocit fast 6. Nature of the p	y: X moderate	N/A slow N/A ream bottom:		brown organic other: sheen X none
N/A c) Approximate width of stream: (from top of bank to top of bank)	50 ft 60 ft	silt/clay/mud sand gravel cobbles (2 - 10" d		Little Some Most	11. Presence of log	
d) Approximate height of banks (challeft 10 ft right e) Approximate depth of pool(s):	10 ft	in stream	of naturally occu	X Unknown Plentiful		ory that best describes the getation shades the stream: 50%
x N/A 2. Plant Species Adjacent to stream (scient Scient Species)	entific name):	8. Facing upstrea for 50 feet on the left side	m, does this stre : no	am have <u>tree</u> cover	13. Pick the descri	other% iption that best fits the stream nel (facing upstream):
Understory: Solidago sempervirens, Phala Eupatorium serotinum	ris arundinacea,	left side Facing upstream, for 50 feet on the: left side What is the % cov		right side 0 % h have shrub cover right side no right side no right side of the stream?	b) Shape of the ch	p Wide, Deep X
Describe the streamside cover. Along the water's edge and stream Left P C		stream):	0 Right P C	Observer initials: 16. Ordinary High Wat Check "P" if observed; P U		n
X T Lawn, Boul	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil nt, Structures, Gabions		X X X X	Natur Shelv Chan Destr Prese X Wrac	ges in the character of uction of terrestrial vegence of litter and debris	f soil getation S
T X X Lawn,	ut to 50 fee t: Trees Bushes, Shrubs all grasses, forbs maintained landscape Boulders/Rocks		Right P C	Scou Depc Multii X X Bed a X X Wate	itter disturbed or wash r sition ble observed flow even ind banks r staining ge in plant community	its
Par 15. In the vicinity of the stream, Che	Gravel/Sand Bare Soil /ement, Structures	common.		17. Waters Type DELI X TNW TNW RPW	W	RPWNN NRPW NRPWW ISOLATE UPLAND
Left P C Natural Strea Bani Garbage/ju Foai Mud, silt, or s Garba Yard waste or Livestock in	mside plant cover degr ks collapsed/eroded ink adjacent to the strea m or sheen on bank and in or entering the st ge/junk in the stream bank (clippings, leaves or with unrestricted acc	adedamtreams, etc.)	Right P C	RPW 18. Observed Fauna X Invertebrate Birds Mammals Reptile/Am Fish 19. Additional Comment	WD make note of wildlife deterer List s butterflic bhians	TNWRPW Its such as bird wires)
	ely discharging pipes Other pipes nes entering stream		X	Double box culver	ts at upstream and dov	l ast Revised: 09/25

Stream Cha	racterization D	Pate: 8/12/2019	Time: 11:45	AM Site:	OR	D	County:	Cook
Field ID: etc	eam/Ditch s	tream Name:		Higgins Cree	k - Section 3		Investigators:	ВЈН
Rain (ste	eavy rain) X O	vercast	3. Circle flow red 4. Stream habita Pool(s) x Riffles(s	ats present:	HEMERAL CERMITTENT Run(s) N/A	PERENNIAL	9. Water Appearan X clear milky foamy turbid	sewage chlorine fishy
	N/A N/A nate width of water flow:	3-4 ft	5. Stream Veloc fast [6. Nature of the	X moderate				ge none nish
(from top top of ba	nate width of stream: of bank to nk) ate height of banks (channe	65 ft	silt/clay/mud sand gravel cobbles (2 - 10" boulders (> 10"	diam.)	X		stream:	gs or large woody debris in Occasional Plentiful
left	5 ft right right x N/A	5 ft	bedrock	ce of naturally o		c material Unknown Plentiful		ory that best describes the etation shades the stream: 50% 100% 75% X other - 10%
	Adjacent to stream (scientifi	tula sp.	8. Facing upstre for 50 feet on th left side What is the % c	e: yes	right side	yes		ption that best fits the stream nel (facing upstream):
	salicaria, Phragmites aus americanus, Persicaria s us sp.	stralis, sp.	left side Facing upstrean for 50 feet on th left side What is the % c	n, does this stree: no over of shrubs	right side am have <u>shru</u> right side per side of the		Left X S Gr b) Shape of the ch	p Wide, Deep X
a) Along the wa Left P C	Tall of Lawn, mai Boulders Grand Pavement, of the streambank out to Bus Tall of Lawn, mai Bou Grand Rawn, mai Bou Grand Rawn, mai Rawn, mai Bou Grand Rawn, mai Rawn,	Trees shes, Shrubs grasses, forbs intained landscape s/Rocks/Rip Rap ravel/Sand Bare Soil Structures, Gabions o 50 fee t: Trees shes, Shrubs grasses, forbs intained landscape ulders/Rocks ravel/Sand		Right P C X X X X X X X X X X X X X X X X X X		if observed; Cf U Natural Shelving Change Destructor Present Wrackir Vegetat Sedime Leaf little Scour Deposit Multiple Bed and X Water's Change	is in the character of tion of terrestrial veg be of litter and debris ig ion matted down; be nt sorting er disturbed or wash ion observed flow even d banks taining e in plant community	n etermine OHWM se bank soil getation ent, or absent ed away ts
15. In the vicini Left P C	Paverr ty of the stream, Check ' Natural Streams Banks o Garbage/junk Foam o	Bare Soil nent, Structures "P" if present, "C" if coliide plant cover degra collapsed/eroded adjacent to the streat or sheen on bank in or entering the str	ided [Right P C	18. Obse	DELINE TNW TNWW RPW RPWWI erved Fauna (ma Invertebrates Birds Mammals Reptile/Amphi	D ake note of wildlife deteren List bees, butte	·
	Garbage/ Yard waste on ba Livestock in or v Actively o	rjunk in the stream ink still	etc.)		Cons Prima eithe	Fish nal Comments structed stream	with riprap reinforcer	ment. stream bank. Box culverts on

Stream Characte	erization	Date:	7/31 & 8/2	Time:	Site:	OR	D TAP	County:	Cook
Field ID: Stream	'Ditch	Stream	Name:		Tributary 1	: Willow Cre	ek	Investigators:	BJH, KAS
b) Approximate v	rain) ain) mittent rain) lepth of water in septh	4-12 v:		3. Circle flow red 4. Stream habit X Pool(s) Riffles(5. Stream Velo fast 6. Nature of th	s) city: model		ow N/A		sewage chlorine fishy i rotten eggs orown organic brown other: heen X none ge none nish
c) Approximate v (from top of ba top of bank) d) Approximate he	ink to) feet	silt/clay/mud sand gravel cobbles (2 - 10 boulders (> 10'			X	stream:	gs or large woody debris in Occasional Plentiful
e) Approximate o	right lepth of pool(s):		6 ft	bedrock 7. Presen in strea		y occurring org	unic material Unknown X Plentiful		ory that best describes the etation shades the stream: X 50% 100% 75% 0ther - %
Plant Species Adjact Trees: Rhamnus cath Juniperus virg	artica, Salix intel			8. Facing upstr for 50 feet on the left side What is the % o	ne: yes cover of <u>tree</u> :	right side	yesyes_e stream?	bank and the chann	ption that best fits the stream nel (facing upstream):
Understory: Lythrum salica Phragmites australis Schoenoplectus tabu virens		lata, Vitis r		left side Facing upstrea for 50 feet on the left side What is the % o	m, does this ane: yes	stream have <u>sl</u> right sid	nrub cover yes the stream?		p Wide, Deep
14. Describe the str a) Along the water's Left P C X	edge and stream B Ta Lawn, n Bould Pavemer e streambank ou B Ta Lawn, n B Ta Lawn, n B	Trees Bushes, Sh Ill grasses, naintained lers/Rocks Gravel/Sa Bare Sc nt, Structur t to 50 fee Trees Bushes, Sh Ill grasses,	y (facing ups urubs forbs landscape l/Rip Rap and bil res, Gabions t: urubs landscape landscape		Right P C X X X X X X X X X X X X X X X X X X X	16. Ord	inary High Water "P" if observed; C P U Natural Shelvir Change Destrue Presen Wracki Vegeta Sedime Leaf litt Scour Deposi Multiple X X Bed an Water : X Change	Mark Determination heck "U" if used to de line impressed on th ig es in the character of ction of terrestrial veg ce of litter and debris ng tion matted down; be ent sorting ter disturbed or washe	n etermine OHWM ee bank soil getation ent, or absent eed away
15. In the vicinity of the Left PCX	he stream, Chec Natural Strear Bank: Garbage/jur Foam Mud, silt, or sa	mside plan s collapse nk adjacer n or sheen and in or er ge/junk in t	ructures esent, "C" if c at cover degra d/eroded at to the strea on bank attering the st the stream	aded im ream	Right P C		DELINI TNW TNWW X RPW RPWW	/D ake note of wildlife deteren List	NRPW NRPWW ISOLATE UPLAND TNWRPW
	Livestock in o		estricted acc ging pipes es			north en Herbace veg at c	ous vegetation in	uth to Willow Creek. E	rom culvert under Touhy Rd at Banks armored with riprap. d and in raprap. Woody ast fence. Last Revised: 08/19

Stream Characterization	Date: 8/27/2019	Time: 5:00pm	Site:	ORD	County:	Cook
Field ID: Stream Ditch	Stream Name:	Trib	outary 2: Wille	ow Creek	Investigators:	CBM, BJH
Weather in the past 24 hours: X Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo	Overcast Clear/Sunny stream: 0.5 to 1 ft	3. Circle flow regime 4. Stream habitats p Pool(s) Riffles(s) 5. Stream Velocity: fast 6. Nature of the par	INTER present: X moderate rticles in the stre	MERAL PERENNIAL MITTENT Run(s) N/A X slow N/A eam bottom: Little Some Most	Water Appearance X clear milky foamy turbid light b dark b oily sh orange greeni other:	sewage chlorine fishy rotten eggs organic orown een none ish
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	35-40ft	silt/clay/mud sand gravel cobbles (2 - 10" diar boulders (> 10" dian	m.)	X X	11. Presence of log	s or large woody debris in Occasional Plentiful
left 25ft righ e) Approximate depth of pool(s): X N/A 2. Plant Species Adjacent to stream (sci	t 25ft	bedrock	f naturally occur	Tring organic material Unknown X Plentiful Im have tree cover	extent to which vege 0% X 25%	ry that best describes the etation shades the stream: 50% 100% 75% other%
Trees: Salix interior Understory: Typha angustifoli Schoenoplectus tabernaemor Phragmites australis	a, tane,	left side What is the % cover left side Facing upstream, do for 50 feet on the:	r of <u>trees</u> per si	right side 0 %	a) Stream bank: Left X Si	el (facing upstream): Right Vertical/undercut teeply sloping (>30°) adual/No slope (<30°)
		left side What is the % cover 25%	r of <u>shrubs</u> per 25%	side of the stream? Observer initials:	b) Shape of the cha X Narrow, Deep Narrow, Shall	annel: Wide, Deep Wide, Shallow
X	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil ent, Structures, Gabions	ream):	Right C X	Shelvin Change Destruc Presen Wrackii Vegeta Sedime Leaf litt Scour Deposi Multiple Bed an Water s	line impressed on the great in the character of station of terrestrial vegoce of litter and debrising tion matted down; berent sorting er disturbed or washed took a cobserved flow events d banks	termine OHWM e bank soil etation nt, or absent
15. In the vicinity of the stream, Che Left P C Natural Strea Ban Garbage/ju Foa Mud, silt, or s Garba	Bare Soil vement, Structures	ded P	Right	DELINE TNW TNWW X RPW RPWW	ake note of wildlife deterent List crickets beaver/muskr	NRPW NRPWW ISOLATE UPLAND TNWRPW Is such as bird wires)
Livestock in Activ	or with unrestricted acce ely discharging pipes Other pipes nes entering stream				drains to detention are bken; heavily rip-rappe	ea under road. Culvert in ed Last Revised: 09/25

Stream Characterization	Date: 7/17/2019	Time: PM	Site: Of	RD WH East	County:	Cook
Field ID: Stream/Ditch	Stream Name:	Tribut	tary 3: Willow (Creek	Investigators:	BJH, KAS
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) X Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo	6-8 inches	3. Circle flow regime: 4. Stream habitats pre Pool(s) Riffles(s) 5. Stream Velocity: fast 6. Nature of the partice	X Run N/A moderate X cles in the stream	(s) N/A	9. Water Appearand clear milky foamy X turbid light be dark be orang green other:	sewage chlorine fishy rotten eggs orown orown orown neen X none ish
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	25 feet	silt/clay/mud sand gravel cobbles (2 - 10" diam.) boulders (> 10" diam.)		X	stream:	gs or large woody debris in Occasional Plentiful
e) Approximate depth of pool(s): X N/A 2. Plant Species Adjacent to stream (scie Trees: Salix interior, Acer negu	,	in stream: None X 8. Facing upstream, do for 50 feet on the:		Unknown Plentiful	extent to which vege 0% 25% 13. Pick the descrip	ory that best describes the etation shades the stream: X 50% 100% 75% other - % Detroin that best fits the stream and (facing upstream):
Rhamnus cathartica, Understory: Typha angustifoli Vitis riparia, Toxicodendron ra sempervirens, Nepeta cataria,		What is the % cover o	40 % right s this stream hav yes right f shrubs per side	e shrub cover side yes e of the stream?	b) Shape of the cha	Wide, Deep
Ta Lawn, I Bould Paveme b) From the top of the streambank or Left P C I S X X Lawn, I Ta X X X Lawn, I	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil nt, Structures, Gabions		Int Ch	X Shelvin Change Destruc X Presen X Vegeta Sedime Leaf litt Scour Deposi Multiple X X Bed an Water s	neck "U" if used to de line impressed on the g es in the character of tion of terrestrial veg- ce of litter and debris ng ion matted down; bei nt sorting er disturbed or washe ion observed flow event d banks	etermine OHWM e bank soil etation nt, or absent
15. In the vicinity of the stream, Che Left P C Natural Strea Bank X Garbage/ju Foar Mud, silt, or si X Garba Yard waste on Livestock in Active	Bare Soil vement, Structures	Rig P aded	ight C 18.	DELINE TNW TNWW X RPW RPWW Observed Fauna (mi X Invertebrates X Birds X Mammals X Reptile/Amph Fish Additional Comments flows south to WH E	D List insects, red-winged bl deer and race	NRPW NRPWW ISOLATE UPLAND TNWRPW Its such as bird wires) Ilackbird, robin Coon tracks der interstate

Stream Characteri	zation Date:	8/27/2019 Time	e: 11:55 AM Site:	ORD	County:	DuPage
Field ID: Stream/D	tch Stream	m Name:	Willow Cre	ek - Section 1	Investigators:	CBM, BJH
Weather in the past 24 X Storm (heavy rain Rain (steady rain Showers (intermi 1. a) Approximate dep N/A b) Approximate wid	Overca: Clear/S ttent rain) th of water in stream:	st unny 4. Str X 5. Str X	ream habitats present: Pool(s)		D. Water Appearance clear milky foamy turbid X light be dark be orange greeni other:	sewage chlorine fishy rotten eggs organic rown crown een x none
c) Approximate wid (from top of bank top of bank) d) Approximate heigh	to	100+ ft sand grave cobbl bould	el les (2 - 10" diam.) lers (> 10" diam.)	X X X	stream:	s or large woody debris in Occasional Plentiful
left 20 ft e) Approximate dep N/A 2. Plant Species Adjacen			Presence of naturally in stream: None Coccasi Cing upstream, does thi	v occurring organic material Unknown onal X Plentiful s stream have tree cover	extent to which vege 0% X 25%	ry that best describes the etation shades the stream: 50% 100% 75% other - %
Trees: Salix petio	laris, Morus alba, Acel	negundo) feet on the: left side yes	right side <u>yes</u> per side of the stream?	13. Pick the descrip bank and the channela) Stream bank:	tion that best fits the stream el (facing upstream):
Understory: Phragmites austr	alis, Lythrum salicaria	Facin for 50	left side 2 on upstream, does this so feet on the: left side yes t is the % cover of shru	right side 5 % tream have shrub cover right side yes bs per side of the stream?	Left X St Gra b) Shape of the cha X Narrow, Deep	Wide, Deep
14. Describe the streal a) Along the water's ed Left P C X X b) From the top of the s Left P C	Tree Bushes, S Tall grasse Lawn, maintaine Boulders/Roc Gravel/ Pavemen Pavemen Tree Bushes, S Tall grasse Lawn, maintaine Boulders,	es Shrubs es d landscape ks/Rip Rap Sand Seil urres. Sabions Set Isabions Set Isabi		Shelv Chan Destr Prese Wracl Vege Sedin Leaf I Scour Depo Multip Bed a Water Chan X X Struct	Check "U" if used to det al line impressed on the ing ges in the character of suction of terrestrial vegence of litter and debrisking tation matted down; bernent sorting terrestributed or washed in the character of successions and banks staining ge in plant community ures	termine OHWM e bank soil etation nt, or absent et away s
15. In the vicinity of the Left	Bare s Pavement, s stream, Check "P" if p	Structures	on: Right	X TNW TNW RPW RPW		NRPW NRPWW ISOLATE UPLAND TNWRPW
,	Natural Streamside pla Banks collaps Garbage/junk adjac Foam or shee Mud, silt, or sand in or Garbage/junk in ard waste on bank (cli	sed/eroded ent to the stream en on bank entering the stream in the stream	P C	18. Observed Fauna (Invertebrate X Birds Mammals Reptile/Amp	bird wire prese	·
X X	Livestock in or with u Actively discha Other p Ditches enter	nrestricted access arging pipes pipes	X X	19. Additional Comments Double box culver	s is at each end 10ft x 15	ft; concrete walls

Stream Characterization	Date: 8/27/2019	Time: 10:4	5am Site:		ORD	(County:	DuPage	
Field ID: Scream/Dich	Stream Name:		Willow Cr	eek-Section	on 2		Investigators:	BJH, CBM	
Weather in the past 24 hours: Storm (heavy rain) X Rain (steady rain) Showers (intermittent rain)	Overcast	3. Circle flow re 4. Stream habi Pool(s)	tats present:	EPHEMER INTERMIT Run	TENT	NNIAL	9. Water Appearance clear milky foamy	e: 10. Water Odoi sewage chlorine fishy	r:
Approximate depth of water		Riffles(5. Stream Velo fast		X N/A	slow 1	N/A	turbid X light bro		gs
D) Approximate width of water	2-3 ft	6. Nature of th					oily she orange	een X none	
N/A c) Approximate width of stream		silt/clay/mud		None Little	Some Most	-	greenis other:		
(from top of bank to top of bank)	арргох 110 п	sand gravel cobbles (2 - 10					stream:	s or large woody debris in	
d) Approximate height of banks (c	20 ft	boulders (> 10' bedrock 7. Presen	ĺ	v occurring	organic mater	rial	12 Pick the category	y that best describes the	
e) Approximate depth of pool(s		in strea		tion throug		wn		tation shades the stream: 50% 75%	0%
X N/A 2. Plant Species Adjacent to stream (s	sciontific name):	8. Facing upstr	eam does th	ie etroam k	nave tree cover	r		other%	
Trees:	,	for 50 feet on the left side	he:	right		ľ	13. Pick the descript bank and the channe	tion that best fits the stream el (facing upstream):	
		What is the %			of the stream?		a) Stream bank: Left	!	Right
Understory: Typha angustifolia, Phragmi	ites australis	Facing upstrea	m does this	etroom hav	e chrub cover	. [Vertical/undercut	X
Sagittaria cuneata, Lythrum		for 50 feet on t		Sucaminav	e <u>siirub</u> cover	ŀ		eeply sloping (>30°) dual/No slope (<30°)	
Potomageton sp.,		left side	e <u>no</u>	right	side <u>no</u>	[
	1	What is the %	cover of shru	ı bs per sid	e of the stream		 Shape of the char X Narrow, Deep 	Wide, Deep	
44 Describe the observable con-	Observation III Dill of the constraint of the	OII :f			erver initials:	10/-4	Narrow, Shallo		
14. Describe the streamside covea) Along the water's edge and stre	•			16.	Ordinary High	ı water i	Mark Determination		
Left	, (g -p-		Right	Che		rved; Che	eck "U" if used to det	ermine OHWM	
P C	Trees		P C		PU	Natural li	ne impressed on the	hank	
	Bushes, Shrubs					Shelving	•	Dank	
	Tall grasses, forbs					•	in the character of s		
<u> </u>	i, maintained landscape ulders/Rocks/Rip Rap						on of terrestrial vege e of litter and debris	tation	
	Gravel/Sand				\	Wracking)		
X X Pavem	Bare Soil nent, Structures, Gabions		Y Y			Vegetatio Sedimen	on matted down; bent	t, or absent	
b) From the top of the streambank	,	ļ	XXX				r disturbed or washed	d away	
Left			Right		-	Scour			
P C	Trees		P C			Deposition Multiple o	on observed flow events	.	
	Bushes, Shrubs				E	Bed and			
	Tall grasses, forbs		X X			Water sta	aining in plant community		
A A	Boulders/Rocks					Change	in plant community		
	Gravel/Sand			17. V	Vaters Type	DEL INIE 4		RPWNN	
Pa	Bare Soil avement, Structures					DELINE <i>A</i> TNW	AIE _	NRPW NRPWW	
						TNWW		ISOLATE	
15. In the vicinity of the stream, Ch	neck "P" if present, "C" if o	common:	Right			RPW RPWWD		UPLAND TNWRPW	
Left P C			P C	18.			e note of wildlife deterents		
	eamside plant cover degra	aded				. l t	List		
l	nks collapsed/eroded /junk adjacent to the strea	ım			X Birds	ebrates	green heron: hi	ird wires present	
Foa	am or sheen on bank				Mamm	nals	g, b	p	
	sand in or entering the st	ream				e/Amphia	ins		
l	page/junk in the stream on bank (clippings, leaves	, etc.)			Fish				
Livestock i	n or with unrestricted acc				Additional Com			present for full length; bird	
	vely discharging pipes							vert at south end. Approx 1.	.4"
X	Other pipes ches entering stream		X		previous day a culvert at north	•	Silt tence along port	tion of west side silted in.	
	SSo Gritoling Stream				sheet entered			Last Revised: 00/	/25

Stream Characterization	Date: 8/27/2019	Time: 2:00pm Site	:	County:	Cook
Field ID: Stream/Ditch	Stream Name:	Willow C	reek - Section 3	Investigators:	BJH, CBM
Weather in the past 24 hours: X Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo	Overcast Clear/Sunny stream: 5 2-3 ft	3. Circle flow regime: 4. Stream habitats present: Pool(s) Riffles(s) 5. Stream Velocity: fast X mode 6. Nature of the particles in	Run(s) X N/A erate slow N/A the stream bottom:	9. Water Appearance:	vn other:
N/A c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	40 ft S	silt/clay/mud sand gravel cobbles (2 - 10" diam.) coulders (> 10" diam.) coedrock	None Little Some Most X X	11. Presence of logs or stream: X None Occ	r large woody debris in
left 3 ft righ e) Approximate depth of pool(s): X N/A 2. Plant Species Adjacent to stream (sci	t 2 ft 7	7. Presence of natura in stream: None Occa	Ily occurring organic material X Unknown Plentiful his stream have tree cover right side no	X 0% 25%	ion shades the stream: 50% 100% 75% 0ther% In that best fits the stream
N/A Understory: Phalaris arundinacea, Phragn Schoenoplectus tabermontan. Typha angustifolia, Lythrum s Dipsacus laciniatus, Daucus o	nites australis, F ae, f alicaria	Facing upstream, does this for 50 feet on the:	% right side <u>0</u> % stream have <u>shrub</u> cover	Steep	ertical/undercut ply sloping (>30°) al/No slope (<30°) X el: Wide, Deep Wide, Shallow
X X Lawn, Boul Paveme b) From the top of the streambank o Left P C X X T X X Lawn,	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil ent, Structures, Gabions		Check "P" if observed; Cleck "P" if observed; Cleck "P" if observed; Cleck "P" UNatural X X Shelvin Change Destruction Presen X Wrackit X Vegeta Sedime Leaf litt X Scour X X Deposition Multiple X X Bed an Water steries of the control of the contr	Mark Determination heck "U" if used to determ line impressed on the ba g es in the character of soil betion of terrestrial vegetati ce of litter and debris ng tion matted down; bent, of ent sorting er disturbed or washed a tion e observed flow events d banks	nine OHWM ank ion or absent
15. In the vicinity of the stream, Che Left P C Natural Strea X Ban Garbage/ju Foa Mud, silt, or s Garba	Bare Soil vement, Structures	Right P C ded n eam	X TNW TNWW RPW RPWW	D ake note of wildlife deterents sur List dragonflies	NRPW NRPWW ISOLATE UPLAND TNWRPW
Livestock in Activ	or with unrestricted acce ely discharging pipes Other pipes nes entering stream		19. Additional Comments double box culverts	at north and south ends	Lost Douisod: 00/25

Stream Characterization	Date: 7/29/2019	Time: 9am Site	ORD TAP	County:	Cook
Field ID Stream/Ditch	Stream Name:	Willow Cı	reek - Section 4	Investigators:	BJH, CBM, KAS
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) X Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo	12-24 inches	3. Circle flow regime: 4. Stream habitats present: Pool(s) X Riffles(s) 5. Stream Velocity: fast mode 6. Nature of the particles in	Run(s) N/A Prate X slow N/A	9. Water Appearance X clear milky foamy turbid light bre dark bre oily she orange greenis other:	sewage chlorine fishy rotten eggs own organic own een X none
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	80 feet	silt/clay/mud sand gravel cobbles (2 - 10" diam.) boulders (> 10" diam.)	X	stream:	s or large woody debris in
e) Approximate depth of pool(s): N/A Plant Species Adjacent to stream (scient): Trees:	12-24 inches	in stream: None X Occa 8. Facing upstream, does the for 50 feet on the:	nis stream have <u>tree</u> cover	extent to which veget X 0% 25%	y that best describes the tation shades the stream: 50% 75% other% tion that best fits the stream
Understory: Phragmites austrailis, Lythrun	n salicaria, s laciniatus,	What is the % cover of tree left side Facing upstream, does this for 50 feet on the: left side No	es per side of the stream? % right side% stream have shrub cover	a) Stream bank: Left X Ste	Vertical/undercut X eeply sloping (>30°) idual/No slope (<30°) nnel: Wide, Deep
X X Boul X X Paveme b) From the top of the streambank o Left P C X X T Lawn, Lawn,	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil ent, Structures, Gabions	Right P C X X X X X	16. Ordinary High Water Check "P" if observed; C P U Natura Shelvir Chang Destru Preser Wracki X Vegeta Sedime Leaf lit Scour Deposi Multiple X X Bed ar Water	Mark Determination heck "U" if used to dete I line impressed on the ng es in the character of se ction of terrestrial veget ice of litter and debris ng tition matted down; bent ent sorting ter disturbed or washed	ermine OHWM bank coil ttation t, or absent d away
15. In the vicinity of the stream, Che Left P C Natural Stream Bani Garbage/ju Foai Mud, silt, or s Garba Yard waste or Livestock in Active	Bare Soil vement, Structures	Right	DELIN TNW TNWW X RPW RPWM 18. Observed Fauna (m Invertebrates X Birds Mammals Reptile/Amph Fish 19. Additional Comments	Alake note of wildlife deterents List great blue hero alians box culverts at d by gabions walls app	NRPW NRPWW ISOLATE UPLAND TNWRPW s such as bird wires) t either end (10x10ft, 12x12ft); prox 30ft high; water flowing;

Stream Characterization	Date: Aug 2 & 12	Time: 4pm; 11am Site	North airfield, gabion section	County:	Cook
Field ID: atream/Ditch	Stream Name:	Willow C	reek - section 5	Investigators:	BJH, CBM
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain)	Overcast Clear/Sunny	Circle flow regime: Stream habitats present Pool(s) Piffor(s)	INTERMITTENT : Run(s)	9. Water Appearance: X clear milky foamy turbid	10. Water Odor: sewage chlorine fishy
Approximate depth of water in N/A Approximate width of water flo	3-6 ft	Riffles(s) 5. Stream Velocity: fast mode 6. Nature of the particles in	erate slow N/A	light brow dark brov oily shee orange greenish	wn other: n x none
N/A c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	35-40 ft	silt/clay/mud sand gravel cobbles (2 - 10" diam.) boulders (> 10" diam.)	None Little Some Most X X X	stream:	or large woody debris in
e) Approximate depth of pool(s):	25-30 ft	7. Presence of natura in stream:	ally occurring organic material Unknown asional Plentiful	12. Pick the category t extent to which vegetat X 0% 25%	that best describes the tion shades the stream: 50% 100% 75% 0ther%
Plant Species Adjacent to stream (scie Trees: N/A	ntific name):	Facing upstream, does to for 50 feet on the: left side No What is the % cover of tree		Pick the description bank and the channel (Stream bank:	n that best fits the stream
Understory: N/A		left side 0 Facing upstream, does this for 50 feet on the: left side no		Left X Stee	Right ertical indercut X ply sloping (>30°) ual/No slope (<30°) el: Wide, Deep
Ta Lawn, I Bould Streambank of Left P C	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil ent, Structures, Gabions	stream): Right P C	Shelvir Change Destrue Presen Wracki Vegeta Sedime Leaf litt Scour Deposi Multiple Bed an	heck "U" if used to determate the control line impressed on the basing ses in the character of soil cition of terrestrial vegetal ce of litter and debrising tion matted down; bent, cent sorting ter disturbed or washed a	mine OHWM ank tion or absent
Lawn,	maintained landscape Boulders/Rocks Gravel/Sand Bare Soil vement, Structures			EATE	RPWNN NRPW NRPWW ISOLATE UPLAND TNWRPW
P C Natural Strea Bank Garbage/ju Foar Mud, silt, or s: Garba	imside plant cover degics collapsed/eroded ink adjacent to the strem or sheen on bank and in or entering the sige/junk in the stream bank (clippings, leave	raded P C		ake note of wildlife deterents su List	
Livestock in Active	or with unrestricted ac ely discharging pipes Other pipes nes entering stream			ft tall; top of gabion map abion tier approx. 10ft ab	·

Stream Characterization	Date: 8/12/2019	Time: 9:00am	n Site:	ORI	D	County:	Cook
Field ID: Stream Ditch	Stream Name:	W	Villow Creek - S	Section 6		Investigators:	ВЈН
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo	3-5 ft	6. Nature of the page	s present: X X Moderate particles in the street	Run(s) N/A	Most	9. Water Appearan X clear milky foamy turbid light b dark b oily sl orang green other:	sewage chlorine fishy rotten eggs orown orown orown neen X none ish
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha	75ft nnel depth): 15ft	silt/clay/mud sand gravel cobbles (2 - 10" di boulders (> 10" dia bedrock		X	X	stream:	gs or large woody debris in Occasional Plentiful
e) Approximate depth of pool(s): X N/A 2. Plant Species Adjacent to stream (scie		in stream: None 8. Facing upstrear	Occasional m, does this strea		Unknown Plentiful	extent to which veg X 0% 25%	ory that best describes the etation shades the stream: 50% 100% 75% 0ther%
Trees: Salix interior		for 50 feet on the: left side What is the % cov	no	right side	no ream?		otion that best fits the stream nel (facing upstream):
Understory: Phragmites australis, Lythrum Conium maculatum,	salicaria,	left side Facing upstream, for 50 feet on the: left side What is the % cove	0 % does this stream no ver of shrubs per	right side have <u>shrul</u> right side	0 % b cover yes stream?	Left X	Wide, Deep X
X X	Trees Bushes, Shrubs all grasses, forbs maintained landscape ders/Rocks/Kip Rap Gravel/Sand Bare Soil nt, Structures, Gabions	if common stream):	Right P C X X X X X X Right P C X X X	16. Ordina	ry High Water if observed; Cf U Natural Shelvin Change Destruc Presen X Wrackir X Vegetal Sedime Leaf litt Scour Deposit Multiple Bed and X Water s X Change	Mark Determination neck "U" if used to de line impressed on th g s in the character of tion of terrestrial veg the of litter and debris ng ion matted down; be nt sorting er disturbed or washe ion observed flow event d banks	etermine OHWM e bank soil etation nt, or absent
15. In the vicinity of the stream, Che Left P C Natural Strea X Bank Garbage/ju Foar Mud, silt, or si Garba Yard waste on Livestock in Active	Bare Soil rement, Structures	aded Fam S	Right P C	18. Observation of the control of th	DELINE TNW TNWW RPW RPWW rved Fauna (ma Invertebrates Birds Mammals Reptile/Amphi Fish all Comments	D List butterflies, be ducks; bird w	NRPW NRPWW ISOLATE UPLAND TNWRPW Its such as bird wires)
	ioo ontoring stream	<u> </u>		Datasheet e	entered by:		Last Revised: 09/25

Stream Characterization	Date: 7/30/2019	Time: Site:	ORD TAP	County:	Cook
Field ID: Stream/Ditch	Stream Name:	Willow Cr	eek - Section 7	Investigators:	BJH, CBM, KAS
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) X Showers (intermittent rain) 1. a) Approximate depth of water in	Overcast Clear/Sunny stream:	3. Circle flow regime: 4. Stream habitats present: Pool(s) Riffles(s) 5. Stream Velocity:	EPHEMERAL PERENNIAL INTERMITTENT X Run(s) N/A	X clear milky foamy turbid	sewage chlorine fishy rotten eggs orown orown
N/A b) Approximate width of water flo	6 inches to 3 ft w: 150 ft	fastmode 6. Nature of the particles in		dark b	neen X none le none lish
c) Approximate width of stream: (from top of bank to top of bank)	300 ft	silt/clay/mud sand gravel cobbles (2 - 10" diam.)	X	stream:	gs or large woody debris in Occasional Plentiful
d) Approximate height of banks (cha left 75 ft right e) Approximate depth of pool(s):	50 ft	in stream:	ly occurring organic material Unknown	extent to which vege X 0%	ory that best describes the etation shades the stream:
X N/A 2. Plant Species Adjacent to stream (scient trees:		8. Facing upstream, does the for 50 feet on the: left sideyes	nis stream have <u>tree</u> cover		75% other% otion that best fits the stream uel (facing upstream):
Acer negundo, Fraxinus penni saccharinum, Populus deltoide Understory: Lythrum salicaria, Phragmites Sambucus canadensis, Vitis n	es, Salix interior australis,	What is the % cover of tree left side 20 Facing upstream, does this for 50 feet on the:	% right side <u>15</u> %		Vertical/undercut Steeply sloping (>30°) Adual/No slope (<30°)
14. Describe the streamside cover.	Check "P" if present, "	left side no What is the % cover of shru C" if common		b) Shape of the cha Narrow, Deep Narrow, Shall	annel: Wide, Deep low Wide, Shallow X
a) Along the water's edge and stream Left P C X	Trees Bushes, Shrubs Hill grasses, forbs maintained landscape ders/Rocks/Rip Rap Gravel/Sand Bare Soil nt, Structures, Gabions	Right PC X X X X X X X X	Check "P" if observed; C P U Natura Shelvir Chang Destru Preser Wracki X X Vegeta Sedime Leaf lit Scour Deposi Multiple X X Bed ar Water X X Chang	heck "U" if used to de lline impressed on the ig es in the character of ction of terrestrial veg- ce of litter and debris ng tion matted down; ber ent sorting er disturbed or washe	etermine OHWM e bank soil etation nt, or absent ed away
15. In the vicinity of the stream, Che	Gravel/Sand Bare Soil rement, Structures ck "P" if present, "C" if	Right	17. Waters Type DELIN X TNW TNWW RPW RPWW	, 'D	RPWNN NRPW NRPWW ISOLATE UPLAND TNWRPW
Bank Garbage/ju Foar Mud, silt, or si Garba	mside plant cover deg as collapsed/eroded not adjacent to the stre nor sheen on bank and in or entering the s ge/junk in the stream bank (clippings, leave	am tream	18. Observed Fauna (m Invertebrates X Birds Mammals Reptile/Amph		esent; ducks, great blue heron
Livestock in Active	or with unrestricted ac ely discharging pipes Other pipes nes entering stream		19. Additional Comments banks vegetated wi	th some armoring 6-10	0 feet up south and north sides;

Stream Characterization	Date:	7/30/2019	Time:	Site:	ORD ⁻	TAP	County:	Cook
Field ID Stream/Bitch	Stream	Name:		Willow Creek	- Section 8		Investigators:	BJH, CBM
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) X Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water flo	2- w:		Stream habi Pool(s Rifflesi 5. Stream Velo fast Nature of the	itats present:)	N/A Slow			sewage chlorine fishy rotten eggs organic brown brown heen ge none lish
c) Approximate width of stream: (from top of bank to top of bank) d) Approximate height of banks (cha		60ft	silt/clay/mud sand gravel cobbles (2 - 10 boulders (> 10			X	stream:	gs or large woody debris in Occasional Plentiful
e) Approximate depth of pool(s):	t	20 ft	in strea None 8. Facing upsti	X Occasiona		Unknown Plentiful	extent to which veg X 0% 25%	ory that best describes the etation shades the stream: 50% 75% other%
Trees:			for 50 feet on t left sid What is the % left sid	e <u>no</u> cover of <u>trees</u> pe	right side r side of the st right side	no ream?		ption that best fits the stream nel (facing upstream): Right
Understory: no vegetation; channelized			for 50 feet on t left sid		right side	_no_ stream?		p Wide, Deep
Dave the streambank of the str	Trees Bushes, SI all grasses maintained ders/Rocks Gravel/S Bare So nt, Structu ut to 50 fee Trees Bushes, SI all grasses maintained Goulders/R Gravel/S Gravel/S	y (facing ups		Right P C Right P C X X	16. Ordina	if observed; CI U Natural Shelvin Change Destruc Presen Wrackii Vegeta Sedime Leaf litt Scour Deposit Multiple Bed an X Change	Mark Determination meck "U" if used to de line impressed on the gas in the character of the control of the cont	n etermine OHWM le bank soil letation ent, or absent led away ts RPWNN
15. In the vicinity of the stream, Che	Bare So rement, St ck "P" if pr	ructures	common:	X	X	DELINE TNW TNWW RPW RPWW	D	NRPW NRPWW ISOLATE UPLAND TNWRPW
Garbage/ju Foal Mud, silt, or s Garba Yard waste on	s collapse ink adjacei in or sheer and in or e ge/junk in bank (clip	d/eroded nt to the streat on bank ntering the st the stream pings, leaves	ream , etc.)	P C	X	Invertebrates Birds Mammals Reptile/Amph Fish	ake note of wildlife deteren List ians	its such as bird wires)
Livestock in Active		restricted acc ging pipes pes			19. Addition		e walled	Last Pavisadi 09/10

Stream Characterization	Date: 7/17/201	Time: AM Site:	ORD	County:	Cook
Field ID: Stream/Ditch	Stream Name:	Willow Creek	- section 9	Investigators:	BJH, KAS
Weather in the past 24 hours: Storm (heavy rain) Rain (steady rain) X Showers (intermittent rain) 1. a) Approximate depth of water in N/A b) Approximate width of water f	6 inches to 3 feet	4. Stream habitats present: Pool(s) X X Riffles(s) 5. Stream Velocity: fast moderate 6. Nature of the particles in the	RUN(S) N/A X slow N/A	Water Appearance: X clear milky foamy turbid light brown dark browr oily sheen orange greenish other:	other:
c) Approximate width of stream (from top of bank to top of bank) d) Approximate height of banks (cf.)	120 feet	silt/clay/mud sand gravel cobbles (2 - 10" diam.) boulders (> 10" diam.)	X	11. Presence of logs or stream: None X Occa	<u> </u>
left 20ft right		7. Presence of naturally oc in stream: None Occasiona	Unknown	12. Pick the category th extent to which vegetation 25%	
Plant Species Adjacent to stream (scientific name): Trees: Salix interior, Acer negundo		8. Facing upstream, does this stream have <u>tree</u> cover for 50 feet on the: left side No right side No bank and the channel (facing upstream):			
Understory: Asclepias syriaca, Solidago of Phalaris arundinacea, Poa priparia, Leucanthemum vulga Glechoma hederaceae, Past Sisymbrium officinale, Solida 14. Describe the streamside cover a) Along the water's edge and streat Left PCX XXX XX Bou Paveme b) From the top of the streambank Left PCX XXX XXX XXX XXX XXX XXX XXX XXX XX	ratensis, Vitis re, Polygonum sp., rinica sativa go sempervirens Check "P" if present res	Right PC XXX XX SS Right PC XXX XX X	right side 0 % am have shrub cover right side Yes per side of the stream? O Observer initials: ks 16. Ordinary High Water Check "P" if observed; C P U Natural Shelvin Change Destruc Presen X X Wrackin X Vegeta Sedime Leaf litt Scour Deposif Multiple X X Bed an	X Steepi Gradua b) Shape of the channel Narrow, Deep Narrow, Shallow r Mark Determination heck "U" if used to determ line impressed on the bar g es in the character of soil stion of terrestrial vegetation end to some sorting er disturbed or washed avaition to observed flow events d banks	Wide, Deep Wide, Shallow X nine OHWM nk on
15. In the vicinity of the stream, Ch Left P C Natural Stre Ban Garbage/j Foa Mud, silt, or s Garb. Yard waste or	Gravel/Sand Bare Soil wement, Structures eck "P" if present, "C" amside plant cover det ks collapsed/eroded unk adjacent to the str m or sheen on bank and in or entering the age/junk in the stream in bank (clippings, leave or with unrestricted a	Right P C praded pam stream ps, etc.)	17. Waters Type DELINE TNW TNWW X RPW RPWW 18. Observed Fauna (mi Invertebrates X Birds X Mammals X Reptile/Amph X Fish 19. Additional Comments	D List red-winged blackb deer, raccoon frog minnow-like, carp	
Activ	ely discharging pipes Other pipes hes entering stream		obvious 1-2 ft high o	on bank, tributary from nor from sloped and muddy t	rth flows into WH East at

APPENDIX L L-477 JUNE 2022 1 of 1

Appendix K. Field Photographs



Photo 1. Bensenville Ditch - Section 1, General site



Photo 2. Bensenville Ditch - Section 1, General site, View to the southeast



Photo 3. Bensenville Ditch - Section 1, Box culvert. View to the southwest $$\operatorname{\mathsf{APPENDIX}\,L}$$

Photo 4. Bensenville Ditch - Section 2, General site, east end. View to the west





Photo 5. Bensenville Ditch - Section 2, General site, west end. View to the east

Photo 6. Bensenville Ditch - Section 2, General site, west end. View to the west





Photo 7. Bensenville Ditch - Section 2, East end, double culvert exit. View to the east APPENDIX L

Photo 8. Bensenville Ditch - Section 2, East end, double culvert. View to the north





Photo 9. Bensenville Ditch - Section 2, General site, side culvert. View to the north

Photo 10. Crystal Creek - Section 1, General site, View to the south





Photo 11. Crystal Creek - Section 1, General site, outfall. View to the north APPENDIX L

Photo 12. Crystal Creek - Section 1, $\,$ General site, $\,$ View to the south

L-481



Photo 13. Crystal Creek - Section 1, General site, View to the north



Photo 15. Crystal Creek - Section 2, $\,$ General site, $\,$ View to the north



Photo 14. Crystal Creek - Section 2, General site, View to the south



Photo 16. Crystal Creek - Section 2, General site, culvert exit. View to the southeast





Photo 17. Crystal Creek - Section 3, General site, View to the north



Photo 19. Crystal Creek - Section 4, General site, View to the north

L-483

Photo 18. Crystal Creek - Section 3, Box culvert under Manheim Road



Photo 20. Crystal Creek - Section 4, General site, boom. View to the southeast

JUNE 2022



Photo 21. Crystal Creek - Section 4, Box culvert under I294. View to the east



Photo 23. Crystal Creek - Section 4, $\,$ General site, $\,$ View to the south



Photo 22. Crystal Creek - Section 4, Culvert View to the north



Photo 24. Crystal Creek - Section 4, General site, View to the north





Photo 25. Ditch 01, South culvert, View to the east

Photo 26. Ditch 01, General site, View to the south





Photo 27. Ditch 01, South culvert, View to the west

Photo 28. Ditch 01, General site, View to the north





Photo 29. Ditch 02, General site, View to the south

Photo 30. Ditch 02, General site, View to the east





Photo 31. Ditch 03, General site, View to the east

Photo 32. Ditch 03, General site, View to the west

L-486





Photo 33. Ditch 03, East culvert

Photo 34. Ditch 03, West culvert





Photo 35. Ditch 04, General site, north section. View to the north

L-487